Cl **00**   *SC* **0**   *P*   *L*   # 64

Marris, Arthur   Cadence

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

Capitalize and colour magenta TBD's throughout the document so that they are highlighted.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **00**   *SC* **0**   *P*   *L*   # 145

Anslow, Peter   Nortel Networks

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

update the draft to reflect the choice of 40GBASE-LR$ for 10km 40G

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **00**   *SC* **0**   *P*   *L*   # 110

Anslow, Peter   Nortel Networks

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

Add explanation of blue cross-references

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **01**   *SC*   *P* **20**   *L* **13**   # 1

Trowbridge, Stephen   Alcatel-Lucent

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

The XLAUI/CAUI is between PMA sub-layers, not between PCS and PMD. Also on line 25 for 100G. John D'Ambrosia

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **01**   *SC* **1.4**   *P* **21**   *L* **38**   # 144

Anslow, Peter   Nortel Networks

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

In the definitions for 100GBASE-ER4 and 100GBASE-LR4 change "LAN WDM lanes,"
to
"WDM lanes,"

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **01**   *SC* **1.4**   *P* **21**   *L* **5**   # 2

Trowbridge, Stephen   Alcatel-Lucent

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

XLAUI/CAUI are intra-sub-layer, not inter. Also line 23

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **150**   *SC*   *P* **85**   *L* **1**   # 66

Marris, Arthur   Cadence

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

Change title to

Introduction to 40 Gb/s and 100 Gb/s networks

SuggestedRemedy

Proposed Response   *Response Status*   **O**

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COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn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

Cl **150**
SC

Page 1 of 24
9/18/2008 7:39:40 PM

Cl **150**   *SC* **150.1**   *P* **85**   *L* **5**   *#* 65

Marris, Arthur   Cadence

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

   Delete subclause 150.1 'Overview'

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **150**   *SC* **150.1.3**   *P* **86**   *L* **19**   *#* 69

Marris, Arthur   Cadence

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

   Dotted line for PHYSICAL should include the MDI in Figure 150-1

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **150**   *SC* **150.1.3**   *P* **86**   *L* **26**   *#* 68

Marris, Arthur   Cadence

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

   In Figure 150-1 move acronyms under Medium and Encoding to a separate subclause

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **150**   *SC* **150.2.1**   *P* **87**   *L* **10**   *#* 70

Marris, Arthur   Cadence

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

   Add editor's note to say that MII may be ambiguous in this context and should possibly be renamed.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **150**   *SC* **150.2.3**   *P* **88**   *L* **2**   *#* 72

Marris, Arthur   Cadence

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

   Change 'shall' to 'must' to allow elimination of PICS.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **150**   *SC* **150.2.3**   *P* **88**   *L* **8**   *#* 71

Marris, Arthur   Cadence

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

   Add extra column for RS in Table 150-1 so 'optional' and 'mandatory' indications can be separated.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **150**   *SC* **150.3**   *P* **89**   *L* **30**   *#* 73

Marris, Arthur   Cadence

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

   In Table 150-1 Round-trip delay constraints replace explicit times with TBD and the original number in parentheses. Also add TBD to delay constraints in subsequent Clauses.

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **150**
SC **150.3**

Page 2 of 24
9/18/2008 7:39:51 PM

Cl **150**   *SC* **151.1.2**   *P* **85**   *L* **3**   # 67

Marris, Arthur   Cadence

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

spelling: change 'Km' to 'km' in three places

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **151**   *SC*   *P* **109**   *L* **30**   # 82

Marris, Arthur   Cadence

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

Delete:
[Editor's note (to be removed prior to publication) - How Sequence ordered sets are carried across the interface was not part of the approved baseline, the following is speculative.]

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **151**   *SC* **151.1**   *P* **93**   *L* **14**   # 76

Marris, Arthur   Cadence

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

Reuse Figure 150-1 in creating Figure 151-1 for consistancy reasons. Shade RS and MII portion.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **151**   *SC* **151.1**   *P* **93**   *L* **6**   # 74

Marris, Arthur   Cadence

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

Reword appropriately:
This clause defines the logical and electrical characteristics for the Reconciliation Sublayer (RS) and the Media Independent Interface (MII) between CSMA/CD media access controllers and various PHYs.

to remove 'logical and electrical'

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **151**   *SC* **151.1**   *P* **94**   *L* **53**   # 75

Marris, Arthur   Cadence

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

Change:
The MII is scalable and capable of supporting any speed of operation.

to:
The MII is scalable and capable of supporting speeds of operation above 10 Gb/s.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **151**   *SC* **151.1.7.1.4**   *P* **96**   *L* **39**   # 77

Marris, Arthur   Cadence

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

Also add TXC and reference to 151.3.1.2.

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **151**
SC **151.1.7.1.4**

Page 3 of 24
9/18/2008 7:39:51 PM

Cl **151**   *SC* **151.3.1.3**   *P* **104**   *L* **12**   # 78

Marris, Arthur   Cadence

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

    For TXD23:16 0xFF needs to be replaced by '1'.

    Correct for figures 151-5, 151-6, 151-7 and 151-8.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **151**   *SC* **151.3.2.2**   *P* **105**   *L* **20**   # 79

Marris, Arthur   Cadence

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

    should be RXC<7:0> in title.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **151**   *SC* **151.3.2.2**   *P* **107**   *L* **25**   # 80

Marris, Arthur   Cadence

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

    Need to put start frame delimiter in 8th byte of all frame descriptions in all transmit and
    receive diagrams. For example see Figure 151-7.

    Correct figures 151-5 to 151-8.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **151**   *SC* **151.3.4**   *P* **109**   *L* **21**   # 81

Marris, Arthur   Cadence

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

    Put in editor's note to point out that this text does not allow unidirectional operation.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **152**   *SC* **152.1.3**   *P* **114**   *L* **1**   # 84

Marris, Arthur   Cadence

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

    Rename subclause from:
    Summary of 10GBASE-R sublayer

    to:
    Summary of 40GBASE-R and 100GBASE-R sublayers

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **152**   *SC* **152.1.3**   *P* **114**   *L* **7**   # 83

Marris, Arthur   Cadence

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

    Use Figure 150-1 as basis for Figure 152-1 for consistancy.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

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

Cl   **152**
SC   **152.1.3**

Page 4 of 24
9/18/2008 7:39:51 PM

Cl **152**   *SC* **152.1.3.1**   *P* **114**   *L* **52**   # 90

Marris, Arthur   Cadence

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

Change:
Deleting (inserting) idles to compensate for the rate difference between the MAC and PMD
due to the insertion (deletion) of alignment markers.

To:
Deleting (inserting) idles to compensate for the rate difference between the MAC and PMD
due to the insertion (deletion) of alignment markers and due to any rate difference between
the MII and PMA.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **152**   *SC* **152.1.4**   *P* **115**   *L* **27**   # 86

Marris, Arthur   Cadence

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

Reword:
There are a two interfaces employed by 40GBASE-R and 100GBASE-R.

to:
There are two interfaces employed by the 40GBASE-R and 100GBASE-R PCS.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **152**   *SC* **152.1.4**   *P* **115**   *L* **36**   # 85

Marris, Arthur   Cadence

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

Add mention of FEC sublayer in addition to the other sublayers mentioned.

Also mention FEC service interface in subclause 152.1.4.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **152**   *SC* **152.1.6**   *P* **115**   *L* **28**   # 87

Marris, Arthur   Cadence

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

In Figure 152-2 put an editor's note saying that the primitive descriptions need to be
reconciled with the FEC sublayer.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **152**   *SC* **152.1.6**   *P* **116**   *L* **6**   # 96

Marris, Arthur   Cadence

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

Figure 152-2: change square around PCS transmit to exclude block distribution and
alignment insertion functions.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **152**   *SC* **152.2.10**   *P* **127**   *L* **52**   # 93

Marris, Arthur   Cadence

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

Remove following text:
[Editor's note (to be removed prior to publication) - How test patterns operate was not part
of the baseline agreement, the following is one possible way.]

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **152**
SC **152.2.10**

Page 5 of 24
9/18/2008 7:39:51 PM

Cl **152**   *SC* **152.2.13**   *P* **128**   *L* **50**   # 94

Marris, Arthur   Cadence

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

Change:
The difference in rate from the deleted alignment markers is made up for
by inserting idles.

To something like:
The difference in rate from the deleted alignment markers is made up for
by inserting idles by a function in the RS sublayer.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **152**   *SC* **152.2.18.4**   *P* **135**   *L* **14**   # 95

Marris, Arthur   Cadence

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

Change:
In addition, the PCS shall transmit a continuous stream of 1s on all lanes to the PMA
sublayer

To:
In addition, the PCS shall transmit a TBD pattern on all lanes to the PMA sublayer

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **152**   *SC* **152.2.2**   *P* **117**   *L* **41**   # 88

Marris, Arthur   Cadence

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

Add reference to where the pseudo random patterns are defined.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **152**   *SC* **152.2.4.3**   *P* **119**   *L* **24**   # 89

Marris, Arthur   Cadence

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

In Figure 152-3 change TxB<1319 to TxB<1319>

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **152**   *SC* **152.2.7**   *P* **124**   *L* **48**   # 91

Marris, Arthur   Cadence

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

Add reference to XLAUI/CAUI definition.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **152**   *SC* **152.2.8**   *P* **125**   *L* **51**   # 92

Marris, Arthur   Cadence

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

Change:
The alignment markers are inserted after every 16384 66-bit blocks on each lane.

to:
The alignment markers are inserted after every 16383 66-bit blocks on each lane.

If necessary change 16384 to 16383 elsewhere in the document.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

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

Cl **152**   Page 6 of 24
SC **152.2.8**   9/18/2008 7:39:51 PM

Cl **153**   *SC*   *P* **143**   *L* **1**   # 97
Marris, Arthur   Cadence

Comment Type   **T**   *Comment Status* **X**
   Change 40/100GBASE-R to 40GBASE-R and 100GBASE-R throughout the document.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153**   *SC* **153.1.2**   *P* **144**   *L* **4**   # 98
Marris, Arthur   Cadence

Comment Type   **T**   *Comment Status* **X**
   Use Figure 150-1 as basis for Figure 153-1 for consistancy.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153**   *SC* **153.1.3**   *P* **144**   *L* **44**   # 99
Marris, Arthur   Cadence

Comment Type   **T**   *Comment Status* **X**
   Change:
   Optionally provides data loopback at the PMA service interface.
   To:
   Optionally provides data loopback to/from the PMA service interface.

   Also add editor's note at 153.6.6 saying that the definition of loopback is provisional and
   needs task force review.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153**   *SC* **153.1.3**   *P* **144**   *L* **45**   # 100
Marris, Arthur   Cadence

Comment Type   **T**   *Comment Status* **X**
   Add bullet:
    g) Tolerate dynamic skew.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153**   *SC* **153.1.4**   *P* **145**   *L* **30**   # 101
Marris, Arthur   Cadence

Comment Type   **T**   *Comment Status* **X**
   Remove medium and encoding descriptions from Figure 153-2. Leave Note and acronyms.

   Change GB/s to Gb/s in acronyms.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153**   *SC* **153.1.4**   *P* **146**   *L* **4**   # 21
Gustlin, Mark   Cisco

Comment Type   **T**   *Comment Status* **X**
   change :Table 153–1—Possible PMA variants
   to: Table 153–1— Example PMA variants
   And make suitable text changes in the subclause.

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **153**
SC **153.1.4**

Page 7 of 24
9/18/2008 7:39:52 PM

Cl **153**   *SC* **153.1.4**   *P* **146**   *L* **50**   # 102
Marris, Arthur   Cadence

Comment Type   **T**   *Comment Status* **X**
> Change:
> Additional ratios can be obtained by combining stages, e.g., a PMA(20:5) can be
> constructed using a PMA(20:10) stacked on a PMA(10:5)
>
> To:
> Additional ratios can be obtained by combining stages.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153**   *SC* **153.2**   *P* **147**   *L* **10**   # 23
Gustlin, Mark   Cisco

Comment Type   **T**   *Comment Status* **X**
> In figure 153-3 use p and q instead of x and y, and make it consistent later.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153**   *SC* **153.2**   *P* **148**   *L* **35**   # 22
Gustlin, Mark   Cisco

Comment Type   **T**   *Comment Status* **X**
> In figure 153-4
> change: All implementations that map every input VL to an output VL position are valid
> to: Every input VL is mapped to an output VL position
>
> Change VL1 to VL0 to be consistent (and v-1).
>
> input clock goes (s) output clock the same
>
> Label figure with input and output primitives.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153**   *SC* **153.3.2.1**   *P* **150**   *L* **30**   # 25
Gustlin, Mark   Cisco

Comment Type   **T**   *Comment Status* **X**
> Change: The data conveyed by the primitive is a single bit sent on one of the output lanes.
>
> To: The data conveyed by the primitive is a single bit sent onto output lane y.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153**   *SC* **153.3.3.1**   *P* **150**   *L* **52**   # 24
Gustlin, Mark   Cisco

Comment Type   **T**   *Comment Status* **X**
> change: This is used by the layer
> to: This is used by the sublayer

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153**   *SC* **153.6.2**   *P* **152**   *L* **54**   # 26
Gustlin, Mark   Cisco

Comment Type   **T**   *Comment Status* **X**
> change: x+v/m
>
> to: x+ (v/m)
>
> Also change anywhere else it appears.

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **153**
SC **153.6.2**

Page 8 of 24
9/18/2008 7:39:52 PM

Cl **153**   *SC* **153.6.2**   *P* **153**   *L* **21**   # 27

Gustlin, Mark   Cisco

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

    Change table 153-2 to TBDs (suggested in brackets), and all skew in the document.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **153**   *SC* **153.6.3**   *P* **153**   *L* **41**   # 28

Gustlin, Mark   Cisco

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

    change: In a Tx PMA implemented synchronously with the PCS,

    to: In a Tx PMA implemented synchronously with the PCS or FEC,

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **153**   *SC* **153.6.6**   *P* **154**   *L* **37**   # 29

Gustlin, Mark   Cisco

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

    change: The function involves looping back each input lane of the uppermost Tx PMA to the corresponding output lane of the uppermost Rx PMA.

    to: The function involves looping back each input lane of the uppermost Tx PMA to an output lane of the uppermost Rx PMA.

    Add editors note: consider if lane mapping is important in loopback.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **153**   *SC* **153.6.7**   *P* **155**   *L* **26**   # 30

Gustlin, Mark   Cisco

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

    change: The test patterns
    cannot be recovered if they are rearranged through the bit multiplexing/gearboxing operations described in 153.6.2.

    To: The test patterns
    may not be recoverable if they are rearranged through the bit multiplexing/gearboxing operations described in 153.6.2.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **153**   *SC* **153.6.7**   *P* **155**   *L* **48**   # 31

Gustlin, Mark   Cisco

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

    Implement the editors note.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **153A**   *SC*   *P* **269**   *L*   # 45

Gustlin, Mark   Cisco

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

    Combine return loss diagrams into single figures

SuggestedRemedy

Proposed Response   *Response Status*   **O**

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

Cl **153A**
SC

Page 9 of 24
9/18/2008 7:39:52 PM

Cl **153A**   *SC* **153A.1**   *P* **263**   *L* **20**   # 32

Gustlin, Mark   Cisco

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

Harmonize figure 153A-1 with the layer diagram in clause 150 diagram.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **153A**   *SC* **153A.1**   *P* **264**   *L* **9**   # 33

Gustlin, Mark   Cisco

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

delete: a) Simple signal mapping to the XLGMII/CGMII; and
c) Four lanes conveying the XLGMII data, or ten lanes conveying the CGMII data;

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **153A**   *SC* **153A.1.2**   *P* **264**   *L* **33**   # 34

Gustlin, Mark   Cisco

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

change: The XLAUI/CAUI allows interconnect distances of approximately 25 cm.

to: The XLAUI/CAUI allows interconnect distances of approximately 25 cm over printed
circuit board, see 153A.4.1.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **153A**   *SC* **153A.3**   *P* **265**   *L* **35**   # 36

Gustlin, Mark   Cisco

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

delete: Unless specified otherwise, the electrical characteristics defined
in this subclause are applicable to all valid sequences of code-groups.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **153A**   *SC* **153A.3.2**   *P* **265**   *L* **54**   # 35

Gustlin, Mark   Cisco

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

delete: The signal paths are intended to operate up to approximately 25 cm over controlled
impedance traces on FR4 printed circuit
boards (PCBs).

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **153A**   *SC* **153A.3.3**   *P* **266**   *L* **12**   # 37

Gustlin, Mark   Cisco

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

Put a footnote on table 153A-1 as a pointer to where X1, X2, Y1 and Y2 illustrated in figure
153A-6.

Also put a footnote for Dj and Tj that points to the definition later in the clause.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

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

Cl **153A**
SC **153A.3.3**

Page 10 of 24
9/18/2008 7:39:52 PM

Cl **153A**   *SC* **153A.3.3.1**   *P* **267**   *L* **19**   # 41
Gustlin, Mark   Cisco

Comment Type   **T**   *Comment Status* **X**
   change: Li<P> and Li<N>

   to: SLi<P> and SLi<N>

   Change: For CAUI i = 1:10
   to: For CAUI i = 0:9

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153A**   *SC* **153A.3.3.2**   *P* **267**   *L* **25**   # 38
Gustlin, Mark   Cisco

Comment Type   **T**   *Comment Status* **X**
   On this line add a reference to 153A.4 on how to measure the 20% and 80% levels.

   create a section in 153A.4 on how to measure rise/fall time, and add an editors note as a
   place holder for this section for now.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153A**   *SC* **153A.3.3.3**   *P* **267**   *L* **31**   # 39
Gustlin, Mark   Cisco

Comment Type   **T**   *Comment Status* **X**
   change: For frequencies from 10 MHz to 11.1 GHz, differential output S-parameters shall
   exceed Equation (153A-1).

   To: For frequencies from 10 MHz to 11.1 GHz, differential output S-parameters shall meet
   the requirements of Equation (153A-1).

   Do this globally in this clause.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153A**   *SC* **153A.3.3.3**   *P* **267**   *L* **36**   # 40
Gustlin, Mark   Cisco

Comment Type   **T**   *Comment Status* **X**
   change: SDD22 = −12 dB

   to: Magnitude SDD22 <= −12 dB

   Do this globally in this clause.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153A**   *SC* **153A.3.3.3**   *P* **268**   *L* **1**   # 42
Gustlin, Mark   Cisco

Comment Type   **T**   *Comment Status* **X**
   In figure 153A-4, change the Y axis to SDD22 from return loss.

   Add negative sign on y axis values.

   Do this globally also in this clause.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153A**   *SC* **153A.3.3.5**   *P* **269**   *L* **34**   # 44
Gustlin, Mark   Cisco

Comment Type   **T**   *Comment Status* **X**
   change: Figure 153A–7
   to: Figure 153A–6

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **153A**
SC **153A.3.3.5**

Page 11 of 24
9/18/2008 7:39:52 PM

Cl **153A**   *SC* **153A.3.3.5**   *P* **269**   *L* **36**   # 43
Gustlin, Mark   Cisco

Comment Type **T**   *Comment Status* **X**
    delete: Jitter specifications include
    all but 10–12 of the jitter population.

    Put in an editor's note that states that we need contributions in this area.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153A**   *SC* **153A.3.4**   *P* **270**   *L* **30**   # 46
Gustlin, Mark   Cisco

Comment Type **T**   *Comment Status* **X**
    Add the same footnotes to table 153A-2 as were added to table 153A-1.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153A**   *SC* **153A.3.4**   *P* **274**   *L* **16**   # 53
Gustlin, Mark   Cisco

Comment Type **T**   *Comment Status* **X**
    change: 10 Loop Bandwidth
    to: 10*Loop Bandwidth

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153A**   *SC* **153A.3.4.2**   *P* **271**   *L* **3**   # 47
Gustlin, Mark   Cisco

Comment Type **T**   *Comment Status* **X**
    make the BER 0f 10-12 to TBD, and add an editors' note.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153A**   *SC* **153A.3.4.2**   *P* **271**   *L* **6**   # 48
Gustlin, Mark   Cisco

Comment Type **T**   *Comment Status* **X**
    change: Reference input signals
    to: Input signal definition

    And change the following paragraph to be consistent.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153A**   *SC* **153A.3.4.6**   *P* **273**   *L* **30**   # 49
Gustlin, Mark   Cisco

Comment Type **T**   *Comment Status* **X**
    Add a editor's note saying that the receiver eye mask might change as an outcome of the
    stat eye adhoc.

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **153A**
SC **153A.3.4.6**

Page 12 of 24
9/18/2008 7:39:52 PM

Cl **153A**   *SC* **153A.3.4.8**   *P* **273**   *L* **50**   # 50

Gustlin, Mark   Cisco

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

　　delete: Jitter specifications include all but 10-12 of the jitter population.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153A**   *SC* **153A.4**   *P* **274**   *L* **34**   # 51

Gustlin, Mark   Cisco

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

　　change: Electrical measurement requirements
　　to: Electrical parameter measurement methods

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **153A**   *SC* **153A.4.1**   *P* **274**   *L* **44**   # 52

Gustlin, Mark   Cisco

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

　　Make consistent the equation format, magnitude vs. absolute value bars.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **154**   *SC* **154.10.1**   *P* **167**   *L* **15**   # 54

Gustlin, Mark   Cisco

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

　　change: All equipment that meets the requirements of this standard shall conform to
　　applicable sections (including
　　isolation requirements) of IEC 60950-1.

　　to: All equipment subject to this clause shall conform to applicable sections (including
　　isolation requirements) of IEC 60950-1.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **155**   *SC* **155.10.1.1**   *P* **191**   *L* **54**   # 62

Gustlin, Mark   Cisco

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

　　add an editorial note, for sff reference for the connectors. And add it to 1.3 references.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **155**   *SC* **155.10.2**   *P* **194**   *L* **37**   # 63

Gustlin, Mark   Cisco

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

　　Change: The connector for each end of the cable assembly shall be the SFF-8092 plug
　　with the mechanical mating

　　To: The connector for each end of the cable assembly shall be TBD (SFF-8092 is
　　considered) plug with the mechanical mating.

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **155**
SC **155.10.2**

Page 13 of 24
9/18/2008 7:39:52 PM

Cl **155**	*SC* **155.6.3**	*P* **178**	*L* **17**	# 55

Gustlin, Mark   Cisco

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

change:PMD_UNITDATA.indication (rx_bit<0:3>) as per clause 156;

to: PMD_UNITDATA.indication (rx_bit<0:3>);

change: PMD_UNITDATA.indication (rx_bit<0:9>) as per clause 156,

to: PMD_UNITDATA.indication (rx_bit<0:9>),

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **155**	*SC* **155.6.4**	*P* **178**	*L* **47**	# 56

Gustlin, Mark   Cisco

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

In this paragraph, PMD_signal_detect_0 goes up to 3.
Need to say for CR4 0-3, for CR10 it is 0-9.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **155**	*SC* **155.7.1**	*P* **180**	*L* **36**	# 57

Gustlin, Mark   Cisco

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

change: Transmitter
to receiver path AC-coupling

to: AC-coupling at the receiver

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **155**	*SC* **155.7.3.2**	*P* **182**	*L* **40**	# 58

Gustlin, Mark   Cisco

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

change: from 100 MHz to 6000 MHz

to: from 100 MHz to 10000 MHz

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **155**	*SC* **155.8.3**	*P* **186**	*L* **14**	# 59

Gustlin, Mark   Cisco

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

change: for TBD MHz <= f <= 6000 MHz.

change: for TBD MHz <= f <= TBD (6000) MHz.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **155**	*SC* **155.8.4.2**	*P* **187**	*L* **13**	# 60

Gustlin, Mark   Cisco

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

Explain the power sum loss on this page as you did on page 189:

The Power Sum loss (labeled as MDELFEXT) between a lane and the three or nine adjacent disturbers shall
be at least:

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **155**
SC **155.8.4.2**

Page 14 of 24
9/18/2008 7:39:52 PM

Cl **155**	*SC* **155.8.7**			*P* **191**		*L* **8**		# 61
Gustlin, Mark						Cisco

Comment Type	**T**		*Comment Status* **X**
    In figure 155-9, Signal shield should have <n> since there is one per pair.

SuggestedRemedy

Proposed Response		*Response Status* **O**

Cl **156**	*SC* **156.1**			*P* **197**		*L* **16**		# 103
Anslow, Peter						Nortel Networks

Comment Type	**T**		*Comment Status* **X**
    change "Type A1a" in Table 156-1 to "Type A1a.2"

SuggestedRemedy

Proposed Response		*Response Status* **O**

Cl **156**	*SC* **156.1**			*P* **198**		*L* **13**		# 104
Anslow, Peter						Nortel Networks

Comment Type	**T**		*Comment Status* **X**
    Shade PPI in Figure 156-1

SuggestedRemedy

Proposed Response		*Response Status* **O**

Cl **156**	*SC* **156.10.1**			*P* **217**		*L* **13**		# 126
Anslow, Peter						Nortel Networks

Comment Type	**T**		*Comment Status* **X**
    In table 156-17 delete rows for:
    Fiber insertion loss at 850 nm (max)
    Losses of all connectors and splices (max)

    also change "Length difference between optical lanes"
    to
    "cabling skew" with units "ns"

SuggestedRemedy

Proposed Response		*Response Status* **O**

Cl **156**	*SC* **156.10.2.1**			*P* **217**		*L* **31**		# 128
Anslow, Peter						Nortel Networks

Comment Type	**T**		*Comment Status* **X**
    change the title from "Optical fiber and cable"
    to
    "Optical fiber cable"

SuggestedRemedy

Proposed Response		*Response Status* **O**

Cl **156**	*SC* **156.10.2.2.1**			*P* **217**		*L* **46**		# 127
Anslow, Peter						Nortel Networks

Comment Type	**T**		*Comment Status* **X**
    change "For example, this allocation supports four connections with an average insertion
    loss per connection of TBD dB."
    to
    "For example, this allocation supports TBD connections with an average insertion loss per
    connection of TBD dB."

SuggestedRemedy

Proposed Response		*Response Status* **O**

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

Cl **156**
SC **156.10.2.2.1**

Page 15 of 24
9/18/2008 7:39:52 PM

Cl **156**   *SC* **156.4.1**   *P* **200**   *L* **9**   # 105

Anslow, Peter   Nortel Networks

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

Change "For purposes of system conformance, the PMD sublayer
is standardized at the points described in this subclause"
to
"For purposes of system conformance, the PMD sublayer
is standardized at the test points defined in 156.7.1"

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.4.1**   *P* **201**   *L* **9**   # 108

Anslow, Peter   Nortel Networks

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

Add editors note to Figure 156-2 to say that this figure will be reviewed

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.4.1**   *P* **202**   *L* **25**   # 106

Anslow, Peter   Nortel Networks

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

Remove the right hand "n+1" from Figure 156-2

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.4.2**   *P* **202**   *L* **48**   # 107

Anslow, Peter   Nortel Networks

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

Change "The optical signal streams are delivered to the MDI, which contains at least four
or ten parallel light paths"
to
"The optical signal streams are delivered to the MDI, which contains four or ten parallel
light paths"

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.4.4**   *P* **203**   *L* **22**   # 109

Anslow, Peter   Nortel Networks

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

In Table 156-5 change "For any lane; Input_optical_power . -30 dBm"
to
"For any lane; Input_optical_power . -30 dBm average power"

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.6**   *P* **205**   *L* **1**   # 112

Anslow, Peter   Nortel Networks

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

change title "PMD to MDI optical specifications for 40GBASE–SR4 and 100GBASE-SR10"
to
"PMD to MDI specifications for 40GBASE–SR4 and 100GBASE-SR10"

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **156**
SC **156.6**

Page 16 of 24
9/18/2008 7:39:52 PM

Cl **156**   *SC* **156.6.1**   *P* **205**   *L* **10**   # 111
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
Change title "40GBASE–SR4 and 100GBASE-SR10 transmitter electrical specifications"
to
"40GBASE–SR4 and 100GBASE-SR10 PPI transmitter electrical specifications"

also define PPI in 156.1.1
also change title of Table 156-6 to "PPI electrical transmit signal output specifications"

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.6.1**   *P* **206**   *L* **1**   # 114
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
change title of table 156-7 to "PPI electrical transmit signal input specifications at TP1"

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.6.1.1**   *P* **205**   *L* **53**   # 113
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
do not seperate "The magnitude of SDD11 at TP1a (see 156.7.1) shall not exceed the limit given by:" from equation 156-1

also change text to "The magnitude of SDD11 at TP1 (see 156.7.1) shall not exceed the limit given by:"

also change title to "SDD11 at TP1"

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.6.1.1**   *P* **205**   *L* **53**   # 116
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
change "The magnitude of SDD11 at TP1a (see 156.7.1) shall not exceed the limit given by:"
to
"From 10 MHz to 11.1 GHz, the magnitude of SDD11 at TP1a (see 156.7.1) shall not exceed the limit given by:"

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.6.1.1**   *P* **206**   *L* **25**   # 115
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
in equation 156-1 change 20xlog10(|SDD11|) <= max(-12 + 2sqrt(f),
to
20xlog10(|SDD11|) <= max(-12, -12 + 2sqrt(f),

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.6.3**   *P* **207**   *L* **29**   # 117
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
Add an editors note to Table 156-9 to say that the min numbers are subject to further study

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **156**
SC **156.6.3**

Page 17 of 24
9/18/2008 7:39:52 PM

Cl **156**   *SC* **156.6.5**   *P* **207**   *L* **48**   # 118
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
    Change subclause 156.6.5 title to "PPI receiver electrical specifications"

    also change title of table 156-11 to "PPI receiver electrical output specifications at TP4"

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.6.5**   *P* **208**   *L* **51**   # 121
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
    In table 156-11 apply note a to the value 0.4 for Deterministic Jitter output at TP4 (pk-pk)

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.6.5**   *P* **209**   *L* **16**   # 119
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
    change title of table 156-12 to "PPI receiver electrical input specifications"

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.6.5.1**   *P* **209**   *L* **41**   # 120
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
    Change "The magnitude of SDD22 at TP4 shall not exceed the limit given by:"
    to
    "From 10 MHz to 11.1 GHz, the magnitude of SDD22 at TP4 shall not exceed the limit
    given by:"
    also in equation 156-2 change max(-12 + 2sqrt(f),
    to max(-12, -12 + 2sqrt(f),

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.6.6**   *P* **210**   *L* **22**   # 122
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
    In table 156-13
    Replace footnote a with "Per IEC 60793-2-10"

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **156**   *SC* **156.7.4.9**   *P* **213**   *L* **26**   # 123
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
    change "The data being transmitted must be asynchronous to the received data"
    to
    "The data being transmitted is asynchronous to the received data"

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **156**
SC **156.7.4.9**

Page 18 of 24
9/18/2008 7:39:53 PM

Cl **156**　　*SC* **156.8.1**　　　　*P* **214**　　*L* **33**　　# 124
Anslow, Peter　　　　　　　　　　　Nortel Networks

Comment Type **T**　　*Comment Status* **X**
change "All equipment meeting this standard shall conform to IEC 60950-1."
to
"All equipment subject to this clause shall conform to IEC 60950-1."

SuggestedRemedy

Proposed Response　　　*Response Status* **O**

Cl **156**　　*SC* **156.9**　　　　*P* **215**　　*L* **21**　　# 125
Anslow, Peter　　　　　　　　　　　Nortel Networks

Comment Type **T**　　*Comment Status* **X**
change "TP1a or TP4a"
to
"TP1 or TP4"

SuggestedRemedy

Proposed Response　　　*Response Status* **O**

Cl **157**　　*SC* **157.12.1**　　　*P* **73**　　*L* **31**　　# 142
Anslow, Peter　　　　　　　　　　　Nortel Networks

Comment Type **T**　　*Comment Status* **X**
change title "Optical fiber and cable" to "Optical fiber cable"

SuggestedRemedy

Proposed Response　　　*Response Status* **O**

Cl **157**　　*SC* **157.12.1**　　　*P* **73**　　*L* **50**　　# 143
Anslow, Peter　　　　　　　　　　　Nortel Networks

Comment Type **T**　　*Comment Status* **X**
Add editors note beneath Table 157-14 as per comment # 134 on clause 158

SuggestedRemedy

Proposed Response　　　*Response Status* **O**

Cl **157**　　*SC* **157.4.4**　　　　*P* **62**　　*L* **36**　　# 136
Anslow, Peter　　　　　　　　　　　Nortel Networks

Comment Type **T**　　*Comment Status* **X**
In table 157-4 change "Input_optical_power <= -30 dBm"
to
"Input_optical_power <= -30 dBm average power"

SuggestedRemedy

Proposed Response　　　*Response Status* **O**

Cl **157**　　*SC* **157.6.1**　　　　*P* **65**　　*L* **23**　　# 137
Anslow, Peter　　　　　　　　　　　Nortel Networks

Comment Type **T**　　*Comment Status* **X**
In Table 157-7 add footnote "Even if the TDP < 0.8dB, the OMA (min) must exceed this
value." to Optical Modulation Amplitude (OMA), each lane (min)

SuggestedRemedy

Proposed Response　　　*Response Status* **O**

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

Cl **157**
SC **157.6.1**

Page 19 of 24
9/18/2008 7:39:53 PM

Cl **157**   *SC* **157.6.3**   *P* **66**   *L* **11**   # 138

Anslow, Peter   Nortel Networks

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

In table 157-8 remove "Receive power, per lane (OMA) (max)" row

also remove "Optical Modulation Amplitude (OMA), each lane (max)" row from Table 157-7

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **157**   *SC* **157.6.3**   *P* **67**   *L* **13**   # 139

Anslow, Peter   Nortel Networks

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

Add an editors footnote "Assumes Ts = 40ps, 1.6dB ISI Penalty, 0.7dB other penalties." to the "Allocation for penalties" value of 2.3 dB in Table 157-9

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **157**   *SC* **157.7.2**   *P* **67**   *L* **40**   # 140

Anslow, Peter   Nortel Networks

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

Change reference to "TIA/EIA–455–127" as per earlier change to clause 158

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **157**   *SC* **157.7.5.2**   *P* **69**   *L* **24**   # 141

Anslow, Peter   Nortel Networks

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

Change reference to "ANSI/TIA/EIA–455–175A–92" as per earlier change to clause 158

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **158**   *SC* **158.12**   *P* **244**   *L* **9**   # 134

Anslow, Peter   Nortel Networks

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

add editors note beneath Table 158-17 to say that
Channel insertion lossa (max)
Positive dispersion (max)
Negative dispersion (min)
are at the worst case wavelengths

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **158**   *SC* **158.4.4**   *P* **230**   *L* **42**   # 129

Anslow, Peter   Nortel Networks

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

In table 158-4 change "Input_optical_power <= -30 dBm"
to
"Input_optical_power <= -30 dBm average power"

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **158**
SC **158.4.4**

Page 20 of 24
9/18/2008 7:39:53 PM

Cl **158**   *SC* **158.4.4**   *P* **231**   *L* **1**   # 130
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
Change "SIGNAL_DETECT parameter is set to OK, and the inherent noise level of the
PMD due to crosstalk, power supply noise, etc."
to
"SIGNAL_DETECT parameter is set to OK, and the inherent noise level of the PMD
including the effects of crosstalk, power supply noise, etc."

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **158**   *SC* **158.6.3**   *P* **235**   *L* **13**   # 131
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
change "(See editors note)"
to
"(See editors note under Table 158-7)"

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **158**   *SC* **158.8.2**   *P* **238**   *L* **38**   # 132
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
change "measured per TIA/EIA–455–127"
to
"measured per TIA/EIA–455–127-A"

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **158**   *SC* **158.8.5.2**   *P* **240**   *L* **26**   # 133
Anslow, Peter   Nortel Networks

Comment Type   **T**   *Comment Status* **X**
change reference "ANSI/TIA/EIA–455–175A–92"
to
"IEC 60793-1-42"
and add to references if necessary

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **45**   *SC*   *P* **27**   *L* **10**   # 4
Trowbridge, Stephen   Alcatel-Lucent

Comment Type   **T**   *Comment Status* **X**
Need an editor's note that the current clause does not cover the case of multiple PMA
instances and separated PMAs and PMDs

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **45**   *SC* **45.2.1**   *P* **27**   *L* **11**   # 3
Trowbridge, Stephen   Alcatel-Lucent

Comment Type   **T**   *Comment Status* **X**
"Backplane" could be confusing if used for other copper. Modify editor's note to reflect
status.

SuggestedRemedy
All registers whose bits are used for Cu will be renamed [Backplane/Copper/TBD] globally

Proposed Response   *Response Status* **O**

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

Cl **45**
SC **45.2.1**

Page 21 of 24
9/18/2008 7:39:53 PM

Cl **45**   *SC* **45.2.1.76**   *P* **36**   *L* **1**   # 8

Trowbridge, Stephen   Alcatel-Lucent

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

This register should have a name appropriate to BASE-R Backplane/Copper/TBD

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **45**   *SC* **45.2.1.77**   *P* **39**   *L* **1**   # 7

Trowbridge, Stephen   Alcatel-Lucent

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

Need to clarify that this register is for BASE-R Backplane/Copper/TBD

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **45**   *SC* **45.2.1.8**   *P* **32**   *L* **35**   # 5

Trowbridge, Stephen   Alcatel-Lucent

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

Replace wavelength with "lane" rather than adding "or lane"

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **45**   *SC* **45.2.1.81**   *P* **42**   *L* **15**   # 9

Trowbridge, Stephen   Alcatel-Lucent

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

progressfor->progress for, completefor->complete for

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **45**   *SC* **45.2.1.9**   *P* **34**   *L* **36**   # 6

Trowbridge, Stephen   Alcatel-Lucent

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

1.10.4:1 should be 1.10.10:1

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **45**   *SC* **45.2.3.11**   *P* **51**   *L* **49**   # 10

Trowbridge, Stephen   Alcatel-Lucent

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

Verify whether unchanged sub-clauses should be included in amendment which changes parent clause. Perhaps replace unchanged sub-clauses with an editor's note indicating that those sub-clauses are unchanged.

SuggestedRemedy

Proposed Response   *Response Status* **O**

Cl **69**   *SC* **69.1.3**   *P* **69**   *L* **31**   # 11

Trowbridge, Stephen   Alcatel-Lucent

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

Editing instructions: "Replace Figure 69-1 with the following:"

SuggestedRemedy

Proposed Response   *Response Status* **O**

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

Cl **69**
SC **69.1.3**

Page 22 of 24
9/18/2008 7:39:53 PM

Cl **69**   *SC* **69.2.2**   *P* **70**   *L* **41**   # 13
Trowbridge, Stephen   Alcatel-Lucent

Comment Type   **T**   *Comment Status*   **X**
What is labeled as clause 69.2.2 should be 69.2.3

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **69**   *SC* **69.2.2**   *P* **71**   *L* **3**   # 12
Trowbridge, Stephen   Alcatel-Lucent

Comment Type   **T**   *Comment Status*   **X**
Add 3 columns to Table 69-1 for MII/RS

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **73**   *SC* **73**   *P* **73**   *L* **5**   # 14
Trowbridge, Stephen   Alcatel-Lucent

Comment Type   **T**   *Comment Status*   **X**
Note should be more narrowly focused to PHY types to which auto-neg is applicable (e.g., Cu)

SuggestedRemedy
Note that the Auto-Negotiation defined in this clause was originally intended for use with Backplane Ethernet PHYs.
The use is not restricted to Backplane Ethernet PHYs. It is also specified for use with 40GBASE-CR4 and 100GBASE-CR10.

Proposed Response   *Response Status*   **O**

Cl **73**   *SC* **73.5.1**   *P* **73**   *L* **26**   # 15
Trowbridge, Stephen   Alcatel-Lucent

Comment Type   **T**   *Comment Status*   **X**
Add an editorial note indicating that we shold consider deleting the paragraph to make it more generic rather than adding "and by devices operating at higher speeds"

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **73**   *SC* **73.7.6**   *P* **75**   *L* **44**   # 16
Trowbridge, Stephen   Alcatel-Lucent

Comment Type   **T**   *Comment Status*   **X**
10GBASE-CX4 is not negotiated, so this line should be removed from the priority table

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **74**   *SC* **74.1.1**   *P* **79**   *L* **22**   # 17
Trowbridge, Stephen   Alcatel-Lucent

Comment Type   **T**   *Comment Status*   **X**
single lane PHYs should be underlined in 74.1.1 header. In paragraph, "... or OTHER single lane BASE-R PHYs"

SuggestedRemedy

Proposed Response   *Response Status*   **O**

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

Cl **74**
SC **74.1.1**

Page 23 of 24
9/18/2008 7:39:53 PM

Cl **74**   *SC* **74.4.2**   *P* **79**   *L* **29**   # 19

Trowbridge, Stephen   Alcatel-Lucent

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

    74.4.2 heading title should include (multi-PCS-lane PHYs)

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **74**   *SC* **74.4.2**   *P* **79**   *L* **31**   # 18

Trowbridge, Stephen   Alcatel-Lucent

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

    rather than speaking of single/multi-lane PHYs, distinction is multi-PCS-lane BASE-R
    PHYs as there is an FEC instance per PCS lane. Also applies to 74.1.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **74**   *SC* **74.7.4.5**   *P* **79**   *L* **52**   # 20

Trowbridge, Stephen   Alcatel-Lucent

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

    Text needs to describe single-PCS-lane, 4-PCS lane, and 20-PCS-lane PHYs to disinguish
    how many blocks need to be marked. Same issue page 80 line 29.

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **99**   *SC*   *P*   *L*   # 135

Anslow, Peter   Nortel Networks

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

    Clause numbers 150 through 158 to be renumbered to 80 through 88
    Also renumber annexes as appropriate

SuggestedRemedy

Proposed Response   *Response Status*   **O**

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

Cl **99**
SC

Page 24 of 24
9/18/2008 7:39:53 PM