C/ 00 SC 0 P 1 L 18 # r02-15 C/ 01 SC 1.3 P 18 1 # r02-16 Donahue, Curtis Donahue, Curtis Comment Status A Comment Type Comment Status A F7 Comment Type hw When the words "twisted" and "pair" and used together in the draft text all instances have a No space in "Part1". "-" between them, such as "twisted-pair", however the draft title "Physical Layer Specifications and Management Parameters for 100 Mb/s Operation over a Single Note: page#, subclause#, and line# are in reference to "clean" draft version Balanced Twisted Pair Cable (100BASE-T1)" do not. All instances should be consistent. SuggestedRemedy This also happens in the P802.3bp draft. Change "Part1" to "Part 1". Note: page#, subclause#, and line# are in reference to "clean" draft version Response Response Status C SuggestedRemedy ACCEPT. Suggest change "Twisted Pair" to "Twisted-Pair". SC 1.3 P 18 C/ 01 L 50 # r02-17 Additionally, Donahue, Curtis page 2. line 3: Change from "twisted pair" to "twisted-pair". page 17, line 11. Change from "Twisted Pair" to "Twisted-Pair". Comment Type Comment Status A hw "(There are many parts to this. I did not list all parts and dates.)" should not be in the draft Response Response Status C ACCEPT IN PRINCIPLE. Note: page#, subclause#, and line# are in reference to "clean" draft version This comment will be passed on to the publication editor for consideration during preparation for publication. SuggestedRemedy Remove "(There are many parts to this. I did not list all parts and dates.)" and add part #'s C/ 00 SC 0 P 13 # r02-74 and dates for ISO 11452 reference if necessary. RAN. ADEE Intel Corporation Response Response Status C Comment Type Comment Status A EΖ ACCEPT IN PRINCIPLE.

Two pages in the "compare" document are numbered 13. All my comments use the PDF page numbers rather than the numbers appearing on the pages.

SuggestedRemedy

I assume that this will be correct in the published standard.

Response Status C

ACCEPT IN PRINCIPLE.

This will be corrected in the published standard.

Remove "(There are many parts to this. I did not list all parts and dates.)"

r02-63 RAN. ADEE Intel Corporation Comment Status A Comment Type bw Acknowledging that this text is not changed from previous drafts, therefore not "required". The inserted text is longer than the corresponding existing descriptions, and is confusing. In 96.3.3.1 a code group is simply a "pair of ternary symbols".

P 20

L 31

Also, the cross references to clause 96 and 96.3 don't work.

SuggestedRemedy

C/ 01

Change inserted text to

SC 1.4.150

"For 100BASE-T1, a pair of ternary symbols that, when representing data, conveys three bits, as defined in 96.3".

Fix cross references (throughout the document).

Response Response Status C

ACCEPT.

SC 1.4.193 C/ 01 P 20 L 8 # r02-4

Chini. Ahmad

Comment Status A Comment Type

Text crosses (strike throughs) show up in the CLEAN version of the doc.

SuggestedRemedy

See comment.

Response Response Status C

ACCEPT IN PRINCIPLE.

Strike throughs and underlines will be present in a project draft when modifying previously amended clauses, but such edits should not be present in Clause 96 of this draft. The editor will scrub the draft for erroneous strike throughs and underlines.

C/ 01 SC 1.4.221a P 22 L 30 # r02-66

RAN. ADEE Intel Corporation

ER

Acknowledging that this comment is not against changes from the previous draft. According to the definition of "FORCE mode", this is not a mode, it is a procedure. "mode" suggest that there is another mode of operation, except forcing one side to be master and

the other to slave. But for 100BASE-T1 this the only way to configure M/S.

Comment Status R

Programming two devices so that they interoperate (such as assigning M/S roles) is in general a management function. If this management overrides some other method then it may be colloquially called "force mode", but we have never used this term in the standard and it does not seem necessary to define it now.

SuggestedRemedy

Comment Type

Delete this definition from 1.4; in 96.2, change "FORCE mode" to "management control"; in 96.4.4. change "FORCE mode is used" to "management control is used", and delete "Using force mode," in the second sentence; in 96.4.5, change "FORCE mode" to "Management control".

Response Response Status W

REJECT.

F7

FORCE mode is a 100BASE-T1 specific mode of operation.

This comment is out of scope.

Ε

L 5 C/ 01 SC 1.4.394 P 22 # r02-64 RAN, ADEE Intel Corporation

Description for 100BASE-T1 is not equivalent to 1000BASE-T, the resulting text is

Comment Status R

confusing.

Comment Type

SuggestedRemedy

Change to "In 100BASE-T1, the time interval for transmission of one ternary symbol, equal to 15 ns".

Response Response Status C

REJECT.

The existing text correctly describes the symbol time and code-group time intervals.

bw

hw

C/ 01 SC 1.4.87a P 22 L 25 # r02-65 C/ 45 SC 45.2.1.131.2 P 26 L 49 # r02-20 RAN. ADEE Intel Corporation Donahue. Curtis Comment Status R F7 Comment Type ER hw Comment Type Comment Status A "MASTER/SLAVE" is not consistent nomenclature with rest of draft. Acknowledging that this comment is not against changes from the previous draft. This overline seems to be a notation for a recurring decimal. I have not seen this used before (at least within 802.3), it does not appear in the style guide, and is not a universally Note: page#, subclause#, and line# are in reference to "clean" draft version accepted notation (see Wikipedia for "repeating decimal". SuggestedRemedy SuggestedRemedy Change title "BASE-T1 MASTER/SLAVE config value (1.2100.14)" to "BASE-T1 MASTER-SLAVE config value (1.2100.14)". Either change 33,333 to 100/3 and 66,666 to 200/3 everywhere, or explicitly define the overline notation (possibly in 1.2.6?) and then use 33.3(overline) and 66.6(overline) Response Response Status C everywhere. ACCEPT. Response Response Status W REJECT. C/ 45 SC 45.2.1.131.2 P 27 L 51 # r02-67 RAN. ADEE Intel Corporation Use of this notation is defined in subclause 9.5.1 'Algebraic Functions' of ANSI/IEEE Std 260.3-1993 'American National Standard for Mathematical Signs and Symbols for Use in Comment Type T Comment Status A F7 Physical Sciences and Technology', item 9.5.1.15 where it is defined as 'cycle delineator Acknowledging that this comment is not against changes from the previous draft. for a repeating decimal number'. The condition "MASTER-SLAVE manual config enable bit is set to one" is always true by the preceding subclause, so is redundant. ANSI/IEEE Std 260.3 is referenced by the IEEE-SA Standards Style Manual. SuggestedRemedy P 21 C/ 01 SC 1.5 L 46 # r02-18 Delete "if MASTER-SLAVE manual config enable bit 1.2100.15 is set to one". Donahue, Curtis Response Response Status C Comment Status A ΕZ Comment Type Ε ACCEPT IN PRINCIPLE. PSAACRF is defined as "power sum alien attenuation to crosstalk ratio far end" but the title of 96.7.1.6 is "Power sum alien attenuation to crosstalk ratio far-end (PSAACRF)". Also, in "if MASTER-SLAVE manual config enable bit 1.2100.15 is set to one" 1.5 PSANEXT is defined as "power sum alien near-end crosstalk". "when MASTER-SLAVE manual config enable bit 1.2100.15 is set to one" Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy Cl 45 SC 45.2.1.131.3 P 28 L 4 # r02-68 Change the definition of PSAACRF in 1.5 to "power sum alien attenuation to crosstalk ratio RAN. ADEE Intel Corporation far-end". Comment Status A F7 Comment Type E Response Response Status C Acknowledging that this comment is not against changes from the previous draft. "Future ACCEPT. modes of operation may use additional settings of these four bits" - this goes without saying, and is not used in other subclauses (as the standard doesn't predict the future). Will probably be deleted in maintenance if it stays this way. SuggestedRemedy Delete "Future modes of operation may use additional settings of these four bits." Response Response Status C ACCEPT.

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

C/ **45** SC **45.2.1.131.3** Page 3 of 22 8/20/2015 2:44:07 PM

C/ 45 SC 45.2.1.132 P 28 L 16 # r02-69 C/ 45 SC 45.2.1.6 P 24 L 38 # r02-5 RAN. ADEE Intel Corporation Chini, Ahmad Comment Type Ε Comment Status A F7 Comment Type Comment Status A F7 Ε Acknowledging that this comment is not against changes from the previous draft. Reserved Table number is not correct. values are conventionally described as simply "Reserved". Compare to table 45-57. The SuggestedRemedy extra wording will probably be deleted in maintenance if it stays this way. Change "Table 45-4" to "Table 45-7". SuggestedRemedy Response Response Status C Change all occurrences of "Reserved for future use, operations not defined yet" to "Reserved". ACCEPT IN PRINCIPLE. Response Response Status C See response to comment #r02-01. ACCEPT. The response to comment r02-01 is copied below for the convenience of the reader. C/ 45 SC 45.2.1.6 P 24 L 38 # r02-1 ACCEPT. Wienckowski. Natalie General Motors Comp Cl 45 SC 45.2.3.1.2 P 27 L 41 # r02-22 Comment Type E F7 Comment Status A Donahue, Curtis The text refers to Table 45-4; however, the table it refers to is 45-7, which is the correct Ε Comment Status A table in Clause 45. Comment Type bw Text in 45.2.3.1.2 was modified to accommodate 100BASE-T1 but the "shalls" in that SuggestedRemedy paragraph were not modified to reflect this update. Replace: Replace indicated line in the 1.7.5:0 row of Table 45-4 with five new lines... Note: page#, subclause#, and line# are in reference to "clean" draft version With: Replace indicated line in the 1.7.5:0 row of Table 45-7 with five new lines... SuggestedRemedy Response Response Status C Modify RM13, RM14, RM15, RM16 as necessary to include 100BASE-T1. ACCEPT. Response Response Status C Cl 45 SC 45.2.1.6 P 24 # r02-19 L 38 ACCEPT. Donahue, Curtis ΕZ Comment Status A Comment Type Ε Reference to "Table 45-4" should be "Table 45-7" SuggestedRemedy Change "Table 45-4" to "Table 45-7" Response Response Status C

ACCEPT IN PRINCIPLE.

ACCEPT.

See response to comment #r02-01.

The response to comment r02-01 is copied below for the convenience of the reader.

C/ 45 SC 45.2.3.1.2 P 27 L 41 # r02-23 Donahue, Curtis Comment Type Comment Status A hw The first sentence of 45.2.3.1.2 does not include "100BASE-T1", should it? Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy Modify the paragraph in 45.2.3.1.2 as necessary. Response Response Status C ACCEPT IN PRINCIPLE. Change "When the 10GBASE-T or the 10GBASE-R mode of operation is selected for the PCS using the PCS type selection field (3.7.1:0), the PCS shall be placed in a loopback mode of operation when bit 3.0.14 is set to a one." to "When the 100BASE-T1, 10GBASE-T or the 10GBASE-R mode of operation is selected for the PCS using the PCS type selection field (3.7.1:0), the PCS shall be placed in a loopback mode of operation when bit 3.0.14 is set to a one." Cl 45 SC 45.2.3.1.2 P 27 L 45 # r02-21 Donahue, Curtis EΖ Comment Type E Comment Status A Cross reference "96.3.4" is incorrect. Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy

Change "96.3.4" to "96.3.5"

Response Status C

ACCEPT IN PRINCIPLE.

See response to comment #r02-06.

The response to comment r02-06 is copied below for the convenience of the reader.

ACCEPT.

C/ 45 SC 45.2.3.1.2 P 27 L 45 # r02-6 Chini, Ahmad Comment Type E Comment Status A F7 Wrong reference. SuggestedRemedy Change 96.3.4 to 96.3.5. Response Response Status C ACCEPT. Cl 96 SC 96.1 P 30 L 43 # r02-7 Chini, Ahmad Comment Type E Comment Status A ΕZ Wrong Figure number. SuggestedRemedy Change "Figure 96-2" to "Figure 96-3" Response Response Status C ACCEPT. C/ 96 SC 96.1 P 30 L 43 # r02-24 Donahue, Curtis EΖ Comment Type E Comment Status A Cross reference "Figure 96-2" is incorrect. Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy Change "Figure 96-2" to "Figure 96-3" Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment #r02-07.

The response to comment r02-07 is copied below for the convenience of the reader.

ACCEPT.

C/ 96 SC 96.1 P 30 L 9 # r02-2 C/ 96 SC 96.1.1 P 31 L 50 # r02-8 Anslow. Peter Ciena Corporation Chini, Ahmad Comment Status A F7 Comment Type F7 Comment Type Comment Status A The newly inserted "Clause 45" should be a cross-reference. Same issue in the first line of Wrong Figure number. 96.6.3 SuggestedRemedy SuggestedRemedy Change "Figure 96-2" to "Figure 96-15" Change "Clause 45" to be a cross-reference in 96.1 and 96.6.3 Response Response Status C Response Response Status C ACCEPT. ACCEPT. Cl 96 SC 96.1.1 P 34 L 41 # r02-71 C/ 96 SC 96.1 P 31 L 10 # r02-70 RAN, ADEE Intel Corporation RAN. ADEE Intel Corporation Comment Type TR Comment Status A ΕZ ΕZ Comment Type Comment Status A The text starting from "In contrast" until the end of this paragraph is not required for Acknowledging that this comment is not against changes from the previous draft. "It is describing the architecture of 100GBASE-T1, has no normative meaning and does not help suitable for a variety of applications" looks like marketing text, which does not belong in a readability. The part about Clause 40 is not "in contrast" since it is a different speed standard. It does not appear in similar clauses. (should we also mention 10GBASE-T?). This text is only weakly relevant and informative at best. SuggestedRemedy SuggestedRemedy Delete "It is suitable for a variety of applications". Replace the text from "In contrast" up to the end of the paragraph, to "This PHY uses Response Response Status C ternary signaling and interfaces to the Clause 22 MII". ACCEPT. Add a NOTE (informative text) after the paragraph: "The 100BASE-TX PHY, specified in Clause 25, also interfaces to a Clause 22 MII, but operates over two pairs of balanced C/ 96 P 31 SC 96.1.1 L 50 # r02-25 twisted-pair cabling". Donahue, Curtis Response Response Status W Comment Type Ε Comment Status A ΕZ ACCEPT IN PRINCIPLE. Cross reference "Figure 96-2" is incorrect. Replace text but do not include NOTE. Note: page#, subclause#, and line# are in reference to "clean" draft version C/ 96 P 34 SC 96.1.1 L 46 # r02-72 SuggestedRemedy RAN. ADEE Intel Corporation Change "Figure 96-2" to "Figure 96-15" Comment Type E Comment Status A ΕZ Response Response Status C Acknowledging that this comment is not against changes from the previous draft. This text ACCEPT IN PRINCIPLE. is badly phrased: the "significant changes in the PCS" are unrelated to the PMA. SuggestedRemedy See response to comment #r02-08. change ", but with significant changes to the PCS, as specified in 96.3" to "The PCS The response to comment r02-08 is copied below for the convenience of the reader. (specified in 96.3) is different from the PCS defined in Clause 40". ACCEPT. Response Response Status C ACCEPT.

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

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hw

F7

Cl 96 SC 96.1.1 P 35 L 4 # [r02-73]

RAN. ADEE Intel Corporation

Comment Type G Comment Status A

Acknowledging that this comment is not against changes from the previous draft. Objectives are not part of the standard, and "Adopt" is not the feature. Echo cancellation is not mentioned anywhere else, and PAM3 does not "help minimize the bandwidth" and definitely does not reduce EMI, compared to its usage in 100BASE-TX. Altogether, this text does not seem to be required in the standard.

SuggestedRemedy

Change "achieving the objectives" to "operation over a single balanced twisted-pair". Change item a) to "Full-duplex communication" and item b) to "3-level pulse amplitude modulation (PAM3). Alternatively, delete the text in lines 4-9.

Response Response Status C

ACCEPT IN PRINCIPLE.

Change

"The specification features that enable achieving the objectives are:

a) Adopt full-duplex communication using echo cancellation on a single balanced twistedpair channel

to reduce cabling while preserving Ethernet MAC compatibility.

b) Adopt Pulse Amplitude Modulation 3 (PAM3) to help minimize the bandwidth and reduce EMI

over a single balanced twisted-pair."

To

"The specification features that enable operation over a single balanced twisted-pair are:

- a) Full-duplex communication with Ethernet MAC compatibility.
- b) Adopt Pulse Amplitude Modulation 3 (PAM3) to provide trade-off between bandwidth and EMI performance."

Cl 96 SC 96.11.4.1 P 82 L 10 # [r02-56

Donahue, Curtis

Comment Type E Comment Status D

PCT13 is a duplicate of PCT11.

Note: page#, subclause#, and line# are in reference to "clean" draft version

SuggestedRemedy

Remove PCT13, renumber PICS items as necessary.

Proposed Response Status Z

REJECT.

This comment was WITHDRAWN by the commenter.

C/ 96 SC 96.11.4.1 P82 L3 # [r02-10

Chini, Ahmad

Comment Type T Comment Status A

Duplicate entries for PCT11 and PCT13.

SuggestedRemedy

Remove the row for PCT11 (because PCT11 is the same as PCT13).

Response Status C

ACCEPT IN PRINCIPLE.

PCT11 and PCT13 are different. PCT11 is in reference to the "encoding rules" for Syn, and PCT13 is in reference to the "generation" of Syn. However the "Feature" of these PICS should be modified to point out the difference.

Change

"Generation of Syn[2:0] and Scn[2:0] shall conform to the encoding rules from 40.3.1.3.2 and 40.3.1.3.3."

to

"Generation of Syn[2:0] and Scn[2:0] shall conform to and generated in accordance with the encoding rules in 40.3.1.3.2 and 40.3.1.3.3."

Add "Syn[3] is not used by definition." to the end of the first paragraph.

Remove second paragraph of 96.3.3.3.2.

Update PICS as needed.

hw

C/ 96 C/ 96 SC 96.11.4.1 P 82 L7 # r02-11 SC 96.11.4.5 P 88 L 23 # r02-14 Chini. Ahmad Chini. Ahmad Comment Type Comment Status A F7 hw Comment Type Comment Status A No need for PCT12, because it is covered in PCT14. For "96.5.7" is not pdf active link. SuggestedRemedy SuggestedRemedy Remove the row for PCT12 (because PCT12 is covered in PCT14). See comment. Response Response Response Status C Response Status C ACCEPT IN PRINCIPLE. ACCEPT. See response to comment #r02-10. Cl 96 SC 96.2 P 33 L 12 # r02-26 The response to comment r02-10 is copied below for the convenience of the reader. Donahue, Curtis ACCEPT IN PRINCIPLE. Comment Type E Comment Status A ΕZ Cross reference "96.4.4" is incorrectly marked in green text. Green text signifies a PCT11 and PCT13 are different. PCT11 is in reference to the "encoding rules" for Syn, subclause cross reference that is not included in the present draft. and PCT13 is in reference to the "generation" of Svn. However the "Feature" of these PICS should be modified to point out the difference. Note: page#, subclause#, and line# are in reference to "clean" draft version. SuggestedRemedy Change "Generation of Syn[2:0] and Scn[2:0] shall conform to the encoding rules from 40.3.1.3.2 Change "96.4.4" from green text to normal black text formatting. and 40.3.1.3.3." Response Response Status C "Generation of Syn[2:0] and Scn[2:0] shall conform to and generated in accordance with ACCEPT. the encoding rules in 40.3.1.3.2 and 40.3.1.3.3." Cl 96 SC 96.2 P 36 L 15 # r02-75 Add "Syn[3] is not used by definition." to the end of the first paragraph. RAN. ADEE Intel Corporation Remove second paragraph of 96.3.3.3.2. Comment Type Ε Comment Status A bw Acknowledging that this comment is not against changes from the previous draft. The Update PICS as needed. clarifications and differences are related to 40.2. so are not "general". Also, They Should Not Be Capitalized. CI 96 P 87 L 8 SC 96.11.4.5 # r02-13 SuggestedRemedy Chini, Ahmad Change "General Clarifications and Differences" to "Differences from the 40.2 service ΕZ Comment Type Ε Comment Status A interface". Apply consistent format. Response Response Status C SuggestedRemedy ACCEPT. Change "5.4 volts" to "5.4 V".

Response Status C

Response

ACCEPT.

CI 96 SC 96.2.1 P 36 L 23 # [r02-80]
RAN, ADEE Intel Corporation

Comment Type T Comment Status R bw

Acknowledging that this comment is not against changes from the previous draft.

The "symbol vectors" used throughout this clause are actually scalars (single lane), while "symbol pairs" are actually vectors. There are also vectors that refer to bits.

Using these "vectors" is an unnecessary and confusing complication for a single-lane PHY. Changing all "symbol vectors" to "symbols" would improve readability.

SuggestedRemedy

Change "symbol vectors" to "symbols" in 96.2.1.

Change tx_symb_vector to tx_symb and rx_symb_vector to rx_symb throughout. Change "A vector of ternary symbols" or (A vector of one ternary symbol" to "A ternary symbol" in 96.2.4.1. 96.2.5.1. 96.3.4.1.1.

Change "sequences of vectors" to "sequences of symbols" and "a vector of zeros" to "a zero symbol" in 96.3.3.2.

Change "A vector of two ternary symbols" to "A ternary symbol pair" and "A sequence of ternary vectors" to "A sequence of ternary symbol pairs" in all variable definitions in 96.3.3.2.1.

Delete "VECTOR" from all state names in figure 96-7 (PCS transmit state diagram). Change "vector" to "pair" in 96.3.3.3.9.

Response Status C

REJECT.

The word vector also applies to arrays with a single element. It was kept to be consistent with Clause 40 state machines.

This comment is not against a changed portion of the draft, a portion of the draft affected

by changes, or a portion of the draft that is the subject of unresolved comments associated

with "Disapprove" votes. It is therefore out of the scope of the recirculation ballot.

Cl 96 SC 96.2.1 P 36 L 24 # [r02-76]
RAN, ADEE Intel Corporation

Comment Type T Comment Status A

EZ

bw

Acknowledging that this comment is not against changes from the previous draft. It would be better to explicitly state which service interface "the service interface" refers to.

SuggestedRemedy

Change "the service interface" to "the PMA service interface".

Response Response Status C
ACCEPT.

Cl 96 SC 96.2.3 P 40 L 15 # [r02-77]
RAN, ADEE Intel Corporation

Comment Type T Comment Status R

Acknowledging that this comment is not against changes from the previous draft.

Acknowledging that this comment is not against changes from the previous draft. Introduction of this primitive is not clear, and does not describe the primitive like other similar subclauses (e.g. 96.2.2).

SuggestedRemedy

Change the text to "This primitive is generated by the PMA to indicate the type of signaling required from the PCS, based on the link status."

Response Status C

REJECT.

Similar to Clause 40.2.3, the current text defines the scope of this primitive.

This comment is not against a changed portion of the draft, a portion of the draft affected

by changes, or a portion of the draft that is the subject of unresolved comments associated

with "Disapprove" votes. It is therefore out of the scope of the recirculation ballot.

C/ 96 C/ 96 SC 96.2.3.1 P 40 L 26 # r02-78 SC 96.2.4 P 36 L 44 # r02-58 RAN. ADEE Intel Corporation Donahue. Curtis Comment Type Comment Status A F7 Comment Type Comment Status A Acknowledging that this comment is not against changes from the previous draft. For Cross reference "Figure 96-7" is incorrect. parameters that take one of the listed possible values, "of the form" is unneeded and confusing (and arguably wrong). This occurs several times, and is not even consistent. Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy SuggestedRemedy Delete "of the form" in 96.2.3.1, 96.2.6.1, 96.2.7.1, 96.2.8.1, 96.2.10.1. Change "Figure 96-7" to "96-6a and Figure 96-6b" Response Response Status C Response Response Status C ACCEPT. ACCEPT. SC 96.2.3.3 SC 96.2.4 P 6 C/ 96 P 35 L 49 # r02-27 Cl 96 L 36 # r02-57 Donahue, Curtis Donahue, Curtis Comment Type Comment Status A F7 Comment Type Comment Status A Cross reference "96.3.2" is incorrect. Cross reference "96.3.2" is incorrect. Note: page#, subclause#, and line# are in reference to "clean" draft version Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy SuggestedRemedy Change "96.3.2" to "96.3.3" Change "96.3.2" to "96.3.3" Response Response Response Status C Response Status C ACCEPT. ACCEPT. C/ 96 SC 96.2.3.3 P 40 L 40 # r02-79 RAN, ADEE Intel Corporation Comment Type Comment Status A TR bw Acknowledging that this comment is not against changes from the previous draft. This primitive is related to the "Data Transmission Enabling" function, not the Transmit function.

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

SuggestedRemedy

ACCEPT IN PRINCIPLE.

Response

Change

96.3.2." To

96.3.3."

Change "Transmit" to "Data Transmission Enabling".

Response Status W

"Upon receipt of this primitive, the PCS performs its Transmit function as described in

"Upon receipt of this primitive, the PCS performs its Transmit function as described in

C/ **96** SC **96.2.4** Page 10 of 22 8/20/2015 2:44:07 PM

F7

F7

C/ 96 SC 96.2.4.1 P 41 L 53 # r02-81 C/ 96 SC 96.2.9.1 P 43 L 23 # r02-83 RAN. ADEE Intel Corporation RAN. ADEE Intel Corporation Comment Type TR Comment Status R hw Comment Type Comment Status A hw This comment results from the deletion of the definition of SYMB 1D (1.4.392a). Acknowledging that this comment is not against changes from the previous draft. The parameter of this primitive is a single ternary symbol (a term defined in 1.4.398). This subclause and the next one refer to 96.4.1, which just refers further to 40.4.2.1. There is no need to use the (now undefined) term SYMB 1D, call it a vector of length 1. Save the reader's time by removing this indirection and placing the reference directly here. and refer to its elements with an index [BI DA] that is never used elsewhere. 96.4.1 may be removed. SuggestedRemedy Comment also applies to 96.2.5.1. Change the text in 96.2.9.1 to SuggestedRemedy "This primitive is generated under the conditions described in 40.4.2.1. In 96.2.4.1, replace the text starting from "The tx symb vector" up to the end of this subclause to: Change the text in 96.2.9.2 to "The tx symb parameter is a ternary symbol". "The effect of receipt of this primitive is specified in 40.4.2.1". In 96.2.5.1, replace the text starting from "The rx_symb_vector" up to the end of this Optionally, also delete subclause 96.4.1. subclause to: Response Response Status C "The rx_symb parameter is a ternary symbol". ACCEPT IN PRINCIPLE. Response Response Status W REJECT. Apply the first two suggested remedies. Do not implement the optional third suggested remedy. The usage of SYMB_1D is similar to usage of SYMB_4D in Clause 40. Removing it will Cl 96 SC 96.3 P 44 L 3 # r02-84 require more changes to the text than suggested. RAN. ADEE Intel Corporation C/ 96 SC 96.2.5.1 P 36 L 39 # r02-28 Comment Type Comment Status A EΖ Donahue, Curtis Acknowledging that this comment is not against changes from the previous draft. Comment Type Comment Status A ΕZ Change the beginning of the paragraph from "During reception the" to "During reception, The PCS Data Transmission Enable function, also a part of the PCS, is missing. the". This would be consistent with the first paragraph of 96.2.4.1. SuggestedRemedy Insert "the PCS Data Transmission Enable, " between "PCS Reset" and "PCS Transmit". Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy Also, add a comma between "Transmit" and the final "and". See comment. Response Response Status C

ACCEPT.

Response

ACCEPT.

Response Status C

C/ 96 C/ 96 SC 96.3.3.1.2 P 48 L 46 # r02-85 SC 96.3.3.2 P 44 L 38 # r02-61 RAN. ADEE Intel Corporation Donahue. Curtis Comment Status A F7 Comment Status A F7 Comment Type Ε Comment Type Acknowledging that this comment is not against changes from the previous draft. Multiple definitions of ESD1 and ESD2. The IPG doesn't "help" anything. Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy SuggestedRemedy Change "helps to flush" to "enables flushing" Modify to: "Therefore, at the end of a frame, tx error is examined to determine whether ESD3 or ERR ESD3 are to be transmitted following two consecutive special pairs (0, 0) for Response Response Status C ESD1 and ESD2, as shown in Figure 96-7." ACCEPT. to SC 96.3.3.2 P 44 C/ 96 L 21 # r02-29 "Therefore, at the end of a frame, tx error is examined to determine whether ESD3 or Donahue, Curtis ERR ESD3 are to be transmitted following ESD1 and ESD2, as shown in Figure 96-7." Comment Type Comment Status A F7 Response Response Status C Change "State Diagram" to "state diagram". This would be consistent with the rest of the ACCEPT. P 50 CI 96 SC 96.3.3.2 L 28 # r02-86 Note: page#, subclause#, and line# are in reference to "clean" draft version RAN. ADEE Intel Corporation SuggestedRemedy Comment Status A F7 Comment Type ER See comment. Acknowledging that this comment is not against changes from the previous draft. Response Response Status C ACCEPT. The sentence starting with "In the normal mode of operation" and ending with "the parameter tx_enable" is unclear and badly phrased. P 44 C/ 96 SC 96.3.3.2 L 25 # r02-30 What does "when between streams of data" mean? (tx enable has the value false?) Donahue, Curtis F7 Comment Type Ε Comment Status A A simple reference to the rules would be easier to understand. Change "{-1, 0, or 1}" to "{-1, 0, or +1}". This would be consistent with the rest of the draft. SuggestedRemedy Change this sentence to: Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy "In the normal mode of operation, the PCS Transmit generates sequences of vectors using the encoding rules defined for SEND N in 96.3.3.3.7 and 96.3.3.3.8, according to the value See comment. of tx_enable.". Response Response Status C Response Response Status W ACCEPT. ACCEPT.

C/ 96 SC 96.3.3.2 P 50 L 33 # r02-87 C/ 96 SC 96.3.3.2 P 51 L 3 # r02-90 RAN. ADEE Intel Corporation RAN. ADEE Intel Corporation Comment Status A F7 Comment Status A F7 Comment Type TR Comment Type Ε Acknowledging that this comment is not against changes from the previous draft. Acknowledging that this comment is not against changes from the previous draft. PAM3 modulation occurs at all times, not just "until tx_enable is re-asserted". Signaled by "inserting an SSD" or "by an ESD" - inconsistent. On the receiving side, there is no insertion, and mode is signaled by the delimiter. The modulation is part of the PMA function and should not be stated for the PCS. This comment was received after the close of ballot. SuggestedRemedy SuggestedRemedy Delete "and these ternary symbols are converted to an analog signal using a PAM3 modulation scheme". Delete "inserting". Response Response Status W Response Response Status C ACCEPT. ACCEPT. C/ 96 SC 96.3.3.2 P 50 L 51 # r02-88 Cl 96 P 15 SC 96.3.3.2.1 L 45 # r02-59 RAN, ADEE Intel Corporation Donahue, Curtis Comment Type Ε Comment Status A EΖ Comment Type Е Comment Status A F7 Acknowledging that this comment is not against changes from the previous draft. Cross reference "96.3.2" is incorrect. Which of the following subsections? Help the readers find their way. Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy This comment was received after the close of ballot. Change "96.3.2" to "96.3" SuggestedRemedy Response Response Status C Change "in the following subsections" to "in 96.3.3.3.6". ACCEPT. Response Response Status C ACCEPT. Cl 96 SC 96.3.3.2.1 P 45 L 15 # r02-60 Donahue, Curtis SC 96.3.3.2 C/ 96 P 51 L 2 # r02-89 Comment Type Comment Status A EΖ Ε RAN, ADEE Intel Corporation Cross reference "96.3.2" is incorrect. Comment Type Comment Status A F7 Acknowledging that this comment is not against changes from the previous draft. Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy Which of the following subsections? Help the readers find their way. Change "96.3.2" to "96.3.3" This comment was received after the close of ballot. Response Response Status C SuggestedRemedy ACCEPT. Change "in the following subsections" to "in 96.3.3.3.5". Response Response Status C

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

ACCEPT.

C/ 96 SC 96.3.3.2.1 Page 13 of 22 8/20/2015 2:44:08 PM

C/ 96 C/ 96 SC 96.3.3.2.1 P 45 L 18 # r02-62 SC 96.3.3.2.3 P 47 L 38 Donahue, Curtis Donahue. Curtis Comment Type Comment Status A F7 Comment Status A Ε Comment Type E Definition does not specify a subclause for ERR_ESD3. Missing arrow tip where exit conditions for SSD3 VECTOR and TRANSMIT DATA merge. Add arrow tip to be consistent with other instances within the draft. SuggestedRemedy Add subclause refeerence into definition. Note: page#, subclause#, and line# are in reference to "clean" draft version Response Response Status C SuggestedRemedy ACCEPT. Response Response Status C SC 96.3.3.2.1 P 52 L 31 C/ 96 # r02-91 ACCEPT. RAN, ADEE Intel Corporation Comment Type Т Comment Status A bw C/ 96 SC 96.3.3.2.3 P **52** L 45 Acknowledging that this comment is not against changes from the previous draft. RAN. ADEE Intel Corporation Comment Type E Comment Status A SYMB 2D is not defined. It is already stated that this is a pair of ternary symbols. Acknowledging that this comment is not against changes from the previous draft. Comment also applies to 96.3.4.1.1. Non-uniform tabs in the list. Also in other timer definitions. This comment was received after the close of ballot. This comment was received after the close of ballot. SuggestedRemedy SuggestedRemedy Delete "Value: SYMB_2D: A pair of ternary transmit symbols." in 96.3.3.2.1. Format as necessary. Delete "Value: SYMB_2D: A pair of ternary receive symbols." in 96.3.4.1.1. Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. See response to comment #r02-32. In 96.3.3.2.1, delete "SYMB 2D:" The response to comment r02-32 is copied below for the convenience of the reader. In 96.3.4.1.1, delete "SYMB 2D:" ACCEPT. C/ 96 SC 96.3.3.2.3 P 46 L 45 # r02-31 Donahue, Curtis Comment Type Comment Status A ΕZ Formatting and spacing of timer definitions are not consistent. Note: page#, subclause#, and line# are in reference to "clean" draft version

SuggestedRemedy

ACCEPT.

Response

Fix formatting for text in timer definition in 96.3.3.2.3.

Response Status C

r02-32

r02-92

F7

ΕZ

hw

bw

C/ 96 SC 96.3.3.2.3 P **52** L 51 # r02-94 RAN. ADEE Intel Corporation

Comment Type Comment Status R Т

Acknowledging that this comment is not against changes from the previous draft.

Neither symb_timer not its "done" condition seem to be used anywhere.

This comment was received after the close of ballot.

SuggestedRemedy

Delete this timer definition.

Т

Response Response Status C

REJECT.

This definition is needed because it is used in PMA_UNITDATA.request primitive.

This comment was received after the close of ballot.

CI 96 SC 96.3.3.2.4 P 54 L 6 # r02-93 RAN, ADEE Intel Corporation

Comment Type Comment Status R Acknowledging that this comment is not against changes from the previous draft.

"Messages" are parts of the service interface. The thingy defined here is an alias for a variable.

It is also a poorly named alias, since by acronym it suggests "symb_timer_done" while it actually refers to "symb_pair_timer_done".

SuggestedRemedy

Delete this subclause.

In the definition of symb_pair_timer, rename the condition from "symb_pair_timer_done" to "SPTD".

In the state diagrams, rename the condition from STD to SPTD.

Response Response Status C

REJECT.

The definition of this variable is clear and consistent for symb pair timer done.

This comment was received after the close of ballot.

C/ 96 SC 96.3.3.3 P 48 L 31 # r02-33

Donahue. Curtis

Comment Type E Comment Status A F7

Line at bottom of the figure does not extend to the edge where other lines start/stop.

Note: page#, subclause#, and line# are in reference to "clean" draft version

SuggestedRemedy

Extend line to allign with the other lines in figure.

Response Response Status C ACCEPT.

Comment Type E Comment Status A

bw

Acknowledging that this comment is not against changes from the previous draft.

The last paragraph repeats (in different words) what was already stated in the previous paragraph

SuggestedRemedy

Delete this paragraph.

Response Status C

ACCEPT IN PRINCIPLE.

See response to comment #r02-10.

The response to comment r02-10 is copied below for the convenience of the reader.

ACCEPT IN PRINCIPLE.

PCT11 and PCT13 are different. PCT11 is in reference to the "encoding rules" for Syn, and PCT13 is in reference to the "generation" of Syn. However the "Feature" of these PICS should be modified to point out the difference.

Change

"Generation of Syn[2:0] and Scn[2:0] shall conform to the encoding rules from 40.3.1.3.2 and 40.3.1.3.3."

to

"Generation of Syn[2:0] and Scn[2:0] shall conform to and generated in accordance with the encoding rules in 40.3.1.3.2 and 40.3.1.3.3."

Add "Syn[3] is not used by definition." to the end of the first paragraph.

Remove second paragraph of 96.3.3.3.2.

Update PICS as needed.

This comment was received after the close of ballot.

Comment Type E Comment Status A

Acknowledging that this comment is not against changes from the previous draft.

The conditions used in these definitions are not aligned correctly. Also, superfluous space in [1:0].

This comment was received after the close of ballot.

SuggestedRemedy

Format and correct as necessary.

Response Response Status C

ACCEPT.

Cl 96 SC 96.3.3.3.6 P49 L39 # [r02-34

Donahue, Curtis

Comment Type E Comment Status A

Several instances of numbers less than 11 are typed as the number as opposed to spelling the number out. Such as:

"9" is used instead of "nine" in 96.3.3.3.6, pg 49, line 36

"6" is used instead of "six" in 96.3.3.3.6, pg 49, line 39

"3" is used instead of "three" in 96.4.3, pg 60, line 26 etc.

Note: page#, subclause#, and line# are in reference to "clean" draft version

SuggestedRemedy

Follow IEEE style guide and type the word of the number if it is less than 11, fix all instances throught draft.

Response Status C

ACCEPT.

F7

F7

C/ 96 SC 96.3.3.3.6 P 55 L 37 # r02-97 C/ 96 SC 96.3.4.1 P 60 L 27 # r02-82 RAN. ADEE Intel Corporation RAN. ADEE Intel Corporation Comment Type Comment Status R Ε hw Comment Type Т Comment Status A hw Acknowledging that this comment is not against changes from the previous draft. Acknowledging that this comment is not against changes from the previous draft. Subclases 96.3.3.3.6 to 96.3.3.3.9 are specific cases of generaton of ternary pairs. They The text in this paragraph does not add any requirement beyond what the state diagram contains. It seems like an observation that is merely informative. It should therefore be a should be subclauses of 93.3.3.3.5. NOTE. SuggestedRemedy Change subclause hierarchy. In addition, the number 4 should be spelled out in the text. Response Response Status C SuggestedRemedy REJECT. Make this paragraph a NOTE. This comment is not against a changed portion of the draft, a portion of the draft affected Change the numeric "4" to "four" twice in this paragraph. by changes, or a portion of the draft that is the subject of unresolved comments associated Response Response Status C with "Disapprove" votes. It is therefore out of the scope of the recirculation ballot. ACCEPT IN PRINCIPLE. Cl 96 SC 96.3.4.1 P 59 L 40 # r02-98 Change the numeric "4" to "four" twice in this paragraph. RAN. ADEE Intel Corporation F7 Cl 96 SC 96.3.4.1.1 P 55 L 10 Comment Type Т Comment Status A # r02-37 Acknowledging that this comment is not against changes from the previous draft. Donahue, Curtis F7 Comment Type Comment Status A Time is not less than a timer (a timer is a specified object). "Data phase" is not used anywhere else in the draft.

This comment was received after the close of ballot.

SuggestedRemedy

Change "a timer specified by" to "the period specified for".

Response Response Status C

ACCEPT.

Response

SuggestedRemedy

ACCEPT.

Change "Data phase" to "Data mode".

Note: page#, subclause#, and line# are in reference to "clean" draft version

Response Status C

hw

C/ 96 SC 96.3.4.1.1 P 55 L 18 # r02-36 Donahue, Curtis Comment Status A F7 Comment Type The subscript 'n' of several variables (Rx_n, RA_n, RB_n, Scr_n, x0_n, etc.) is not italicized in several locations throughout, however Tx n has an italicized 'n'. Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy Fix all instances of the subscript 'n' to italicized, making the font consistent throughout the draft. Response Response Status C ACCEPT. C/ 96 SC 96.3.4.1.1 P 55 L 33 # r02-35 Donahue, Curtis

Note: page#, subclause#, and line# are in reference to "clean" draft version

Comment Status D

SuggestedRemedy

Comment Type

Suggest that the definition of SYMB_1D be added for consistency or remove the definition of SYMB_2D on line 26 (already defined in 96.3.3.2.1)..

SYMB_1D does not have a definition next to it but a few lines above it SYMB_2D does.

Proposed Response Response Status Z

REJECT.

This comment was WITHDRAWN by the commenter.

C/ 96 SC 96.3.4.1.2 P 61 L 40 # [r02-99

RAN, ADEE Intel Corporation

Comment Type E Comment Status R

Acknowledging that this comment is not against changes from the previous draft.

"after de-interleaving rx_symb_vectors" does not need to be repeated.

This comment was received after the close of ballot.

SuggestedRemedy

Delete the second occurrence of "after de-interleaving rx_symb_vectors".

Depending on acceptance of another comment, change "rx_symb_vectors" to "the stream of rx_symb symbols" in the first occurrence.

Response Status C

REJECT.

This comment is not against a changed portion of the draft, a portion of the draft affected by changes, or a portion of the draft that is the subject of unresolved comments associated with "Disapprove" votes. It is therefore out of the scope of the recirculation ballot.

Cl 96 SC 96.3.4.1.3 P 55 L 52 # [r02-38

Donahue, Curtis

Comment Type E Comment Status A

Several equations, definitions, and state diagram text that use operators or symbols do not have consistent spacing around the surrounding numbers. Such as "1.08 ms +/-54 us".

Note: page#, subclause#, and line# are in reference to "clean" draft version

SuggestedRemedy

Fix all such instances to have a space before and after the operator/symbol.

Response Status C

ACCEPT.

hw

F7

C/ 96 C/ 96 SC 96.3.4.5 P 57 L 23 # r02-39 SC 96.4.4 P 61 L 19 # r02-43 Donahue, Curtis Donahue. Curtis Comment Type Comment Status A Comment Type E Comment Status A F7 hw The use of "should" in this sentence leaves the result ambiguous. Either the "false carrier "Master" and "Slave" need to be completely capitalized. error" is indicated on the MII after conversion or its not. Note: page#, subclause#, and line# are in reference to "clean" draft version Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy SuggestedRemedy Change "Master" to "MASTER" and "Slave" to "SLAVE". Either make this a testable requirement and change "should" to a "shall", or make it a Response Response Status C requirement that does not need to be tested by changing "should" to "will". ACCEPT. Response Response Status C ACCEPT IN PRINCIPLE. Cl 96 SC 96.4.6 P 61 L 40 # r02-42 Donahue, Curtis Change "should" to "shall". Comment Type E Comment Status A F7 Add appropriate PICS. Change "variable" to "variables". # r02-40 C/ 96 SC 96.4 P 58 L 29 Note: page#, subclause#, and line# are in reference to "clean" draft version Donahue, Curtis SuggestedRemedy Comment Type Ε Comment Status A EΖ See comment. Cross reference "96.2.2" is incorrect. Response Response Status C Note: page#, subclause#, and line# are in reference to "clean" draft version ACCEPT. SuggestedRemedy Cl 96 SC 96.4.7.1 P 62 L 16 # r02-44 Change "96.2.2" to "96.2.1" Donahue, Curtis Response Response Status C Comment Type Comment Status A EΖ Ε ACCEPT. Change "Start maxwait_timer" to "start maxwait_timer". C/ 96 SC 96.4.3 P 60 L 27 # r02-41 Note: page#, subclause#, and line# are in reference to "clean" draft version Donahue, Curtis SuggestedRemedy Comment Type E Comment Status A EΖ See comment. "and" is missing. Response Response Status C Note: page#, subclause#, and line# are in reference to "clean" draft version ACCEPT. SuggestedRemedy Change "Receivers, Abilities, Sub-Functions" to "Receivers, Abilities, and Sub-Functions".

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

Response Status C

Response

ACCEPT.

C/ 96 SC 96.4.7.1 Page 19 of 22 8/20/2015 2:44:08 PM

C/ 96 C/ 96 SC 96.4.7.1 P 63 L 5 # r02-45 SC 96.5.1.1 P 64 L 53 # r02-48 Donahue, Curtis Donahue. Curtis Comment Type Comment Status A F7 Comment Status A Ε Comment Type E hw In Figure 96-19 the line connecting the exit of LINK UP to the entrance of LINK DOWN is Since RF means "radio frequency", "radio frequency CM RF noise" seems redundant". missing an arrow tip. Note: page#, subclause#, and line# are in reference to "clean" draft version Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy SuggestedRemedy Suggest changing to "RF CM noise" since that is what it says in line 49. Add arrow tip to the line at the top of LINK DOWN. Response Status C Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT. Change Cl 96 "radio frequency CM RF noise" SC 96.4.7.1 P 64 L 12 # r02-46 Donahue, Curtis "RF CM noise" Comment Type E Comment Status A F7 C/ 96 SC 96.5.2 P 65 L 12 # r02-3 Change "PCS transmit function" to "PCS Transmit function". Chini. Ahmad Note: page#, subclause#, and line# are in reference to "clean" draft version F7 Comment Type T Comment Status A SuggestedRemedy PICS is missing for Test modes. See comment. SuggestedRemedy Response Response Status C Add a PICS for this statement: "The test modes described in this subclause shall be ACCEPT. provided to allow testing of the transmitter waveform, transmitter distortion, transmitter jitter, and transmitter droop. P 64 C/ 96 SC 96.4.7.1 L 19 # r02-47 Response Response Status C Donahue, Curtis ACCEPT. Comment Type Ε Comment Status D bw SC 96.5.2 P 65 L 14 Cl 96 # r02-49 "tx_enable" is defined in 96.4.7.1, but it is defined earlier in 96.3.3.2.1 with a different Donahue, Curtis definition. Additionally it is not used in the PHY Control diagrams. Comment Type E Comment Status A F7 Note: page#, subclause#, and line# are in reference to "clean" draft version Change "2102.15:13" to "1.2102.15:13". SuggestedRemedy Remove tx enable and its definition from 96.4.7.1. Note: page#, subclause#, and line# are in reference to "clean" draft version Proposed Response SuggestedRemedy Response Status Z See comment. REJECT. Response Response Status C This comment was WITHDRAWN by the commenter. ACCEPT.

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

CI 96 SC 96.5.2 Page 20 of 22 8/20/2015 2:44:08 PM

C/ 96 C/ 96 SC 96.5.2 P 66 L 14 # r02-9 SC 96.5.3 P 67 L 45 # r02-12 Chini, Ahmad Chini, Ahmad Comment Type Ε Comment Status A F7 Comment Type Comment Status A F7 Ε Wrong reference. Apply consistent format. SuggestedRemedy SuggestedRemedy "the scrambling function described in 96.3.3.3." should be read "the scrambling function Change "5.4 volts" to "5.4 V". described in 96.3.3.3.1." Response Response Status C Response Response Status C ACCEPT. ACCEPT. Cl 96 SC 96.5.3 P 67 L 45 # r02-52 Cl 96 SC 96.5.2 P 66 L 15 # r02-50 Donahue, Curtis Donahue, Curtis Comment Type E Comment Status A ΕZ EΖ Comment Type Ε Comment Status A This is the only instance of "volts" being used in the draft but there are other locations Cross reference "96.3.3.3" is incorrect. where "V" is used. Note: page#, subclause#, and line# are in reference to "clean" draft version Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy SuggestedRemedy Change "96.3.3.3" to "96.3.3.3.1" Suggest changing "5.4 volts" to "5.4 V". Response Response Status C Response Response Status C ACCEPT. ACCEPT IN PRINCIPLE. C/ 96 SC 96.5.3 P 66 L 27 # r02-51 See response to comment #r02-12. The response to comment r02-12 is copied below for the convenience of the reader. Donahue, Curtis Comment Type E Comment Status A ΕZ ACCEPT. "Transmitter Under Test" is left aligned while other figures have the same text center Cl 96 SC 96.5.4.4 P 70 L 48 # r02-53 aligned. Donahue, Curtis Note: page#, subclause#, and line# are in reference to "clean" draft version Comment Type E Comment Status A EΖ SuggestedRemedy Missing ":" between "be" and "resolution" and "and" before "RMS detector". Either change the text in Figure 96-20 to center aligned or change text in Figure 96-21 and SuggestedRemedy Figure 96-22 to left aligned. Change "be resolution bandwidth = 10 kHz, video bandwidth = 30 kHz, sweep time > 60 s, Response Response Status C RMS detector." to "be: resolution bandwidth = 10 kHz, video bandwidth = 30 kHz, sweep ACCEPT. time > 60 s, and RMS detector.". Response Response Status C ACCEPT.

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

C/ 96 SC 96.5.4.4 Page 21 of 22 8/20/2015 2:44:08 PM

C/ 96 SC 96.5.5 P 72 L 3 # r02-54 Donahue, Curtis Comment Type E Comment Status A F7 Change "PMA Receive Function" to "PMA Receive function". Note: page#, subclause#, and line# are in reference to "clean" draft version SuggestedRemedy See comment. Response Response Status C ACCEPT. CI 96 SC 96.7.1 P 74 L 54 # r02-55 Donahue, Curtis Comment Status A F7 Comment Type E The last paragraph of 96.7.1 lists the transmission parameters definied in the children

subclauses but does not list PSANEXT or PSAACRF.

Note: page#, subclause#, and line# are in reference to "clean" draft version

SuggestedRemedy

Change "The transmission parameters of the link segment include insertion loss, return loss, mode conversion loss, and characteristic impedance." to "The transmission parameters of the link segment include insertion loss, return loss, mode conversion loss, characteristic impedance, power sum alien near-end crosstalk, and power sum alien attenuation to crosstalk ratio far-end.".

Response Status C

ACCEPT.