C/ 30 SC 30.5.1.1.17 P 39 Ran, Adee Intel	L 46	# 19	CI 45 Ran, Adee	SC 45.2.3.13	P 72 Intel	L 13	# 21
omment Type T Comment Status D			Comment Typ	e E	Comment Status D		
(comment is about text that has not changed fr	rom D2.1)		(commen	t is about text	hat has not changed from D	2.1)	
The maximum increment rates stated here see	em to be incorrect.		802.3bq h	as changed 1	GBASE-T to MultiGBASE-	Г.	
The maximum occurs when every FEC codeword expectation with an uncorrelated BER close to codeword size is 5440 bits, and the durations a and 680 UI = 25.6 ns for 400G.	2e-4). For 200G/400	G the	- titles of - - body of -			owing	
Since there are two FEC instances, the maximic codewords.	um rate per instance	corresponds to two	Proposed Res	sponse	Response Status O		
Accordingly the maximum rates are slightly bel million per second for 400G.	low 10 million per sec	cond for 200G and 20		SC 78.1	P 102	L 9	# 22
Also applies to 30.5.1.1.18 (uncorrectable code codewords are uncorrectable, e.g. when there is		aximum rate is when all	Ran, Adee Comment Typ		Intel <i>Comment Status</i> D hat has not changed from D	12 1)	
In 30.5.1.1.17, change "40 000 000" to "10 000 Apply same changes in 30.5.1.1.18. roposed Response Response Status O		00" to "20 000 000".	transpare sleep LPI However,	nt to LPI (unlik). PMDs which the list should	Y types in should not includ e 25GAUI, XLAUI and CAUI are transparent to LPI (like include the 200GXS and 40 g LPI signaling, which do ap	-n, which have s all optical PMDs 00GXS, since the	special behavior in eep) are not listed. ey do have special
/ 30 SC 30.5.1.1.18 P 40 an, Adee Intel omment Type T Comment Status D (comment is about text that has not changed fr		# 20	SuggestedRe Change "t	medy the 200GAUI-8 the 400GAUI-1	or 200GAUI-4" to "the 2000 6 or 400GAUI-8" to "the 400 <i>Response Status</i> O	GXS".	(
"Each element of this array contains a count of copy/paste error. aFECUncorrectableBlocks sh corrected blocks							
(The error appears in the base document, how in scope of the project)	ever the paragraph is	amended so may be					
SuggestedRemedy Change "corrected" to "uncorrectable".							

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G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line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/ 78 SC 78.1 Page 1 of 15 19/12/2016 08:31:23

78 SC 78.5 P 103 L 4 # 24 an, Adee Intel	CI 78 SC 78.5.2 P 103 L 20 # 23 Ran, Adee Intel			
comment Type T Comment Status D (comment is about text that has not changed from D2.1)	Comment Type T Comment Status D (comment is about text that has not changed from D2.1)			
The LPI timing parameters for 200GXS and 400GXS are not listed. Table 78-4 should include rows for 200GXS and 400GXS, similar to the row for XGXS in	There is no need to list the new AUIs here since they are transparent to LPI (unlike 25GAUI, XLAUI and CAUI-n). PMDs which are transparent to LPI (like all optical PMDs) are not listed.			
the base document.	SuggestedRemedy			
Since these sublayers practically form a full 200GBASE-R/400GBASE-R link, it makes	Remove 78.5.2 and the editorial instructions to change it.			
sense to assume that their timing parameters are the same as the corresponding PHYs. Any new PHY that includes 200GXS/400GXS would need to list its delay separately.	Proposed Response Response Status O			
ggestedRemedy Add two rows for 200GXS and 400GXS with the same values as the existing rows for	C/ 120 SC 120.5.11.2.3 P 200 L 54 # 43			
200GBASE-R fast wake and 400GBASE-R fast wake.	Dudek, Mike Cavium			
oposed Response Response Status O	Comment Type E Comment Status D This paragraph duplicates the beginning of the next paragraph and is redundant.			
78 SC 78.5.1 P 103 L 17 # 25 n, Adee Intel	SuggestedRemedy Delete it.			
<i>mment Type</i> T <i>Comment Status</i> D (comment is about text that has not changed from D2.1)	Proposed Response Response Status W [Editor's note: This comment was sent after the close of the comment period]			
78.5.1 (not included in the draft) is titled "10 Gb/s PHY extension using XGXS". Its content is relevant for 200GXS and 400GXS too.	C/ 120 SC 120.5.11.2.3 P 200 L 54 # 1			
ggestedRemedy	Ran, Adee Intel			
Bring 78.5.1 into the draft.	Comment Type E Comment Status D			
Change its title from "10 Gb/s PHY extension using XGXS" to "PHY extension using extender sublayers".	The sentence "Each section of PRBS31 is generated as if produced by the shift register implementation" is cut prematurely, and is then repeated in the next paragraph.			
Insert the following new paragraph at the end of 78.5.1:	Also, this is a list of rules, so it should be formatted accordingly.			
"The 200GXS/400GXS can be inserted between the RS and a 200 Gb/s or 400GXS PHY,	SuggestedRemedy			
respectively, to transparently extend the physical reach of the 200GMII/400GMII. The LPI signaling can operate through the 200GXS/400GXS with no change to the PHY timing	Delete the quoted sentence.			
	Use dashed list format for the paragraphs from "Bit sequence A…" until "The repeating SSPRQ pattern" (inclusive).			
parameters described in Table 78–4 or the operation of the Data Link Layer Capabilities negotiation				
	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

C/ 120 SC 120.5.11.2.3 Page 2 of 15 19/12/2016 08:31:28

C/ 120 SC 120.5.11.2.3 P 200 L 54 # 37 Brown, Alan ADTRAN, Inc.	C/ 120 SC 120.5.11.2.4 P 201 L 46 # 3 Ran, Adee Intel
Comment Type E Comment Status D A period is needed to close the sentence "Each section of PRBS31 is generated as if produced by the shift register implementation".	Comment TypeTComment StatusDIs the CDR problem specific to PAM4 only? Is a square wave guaranteed to appear correctly when the interface uses NRZ signaling (200GAUI-8 or 400GAUI-16)?
SuggestedRemedy Add the period. Proposed Response Response Status O	This is not a data signal anyway, so there is no need to assume it works like data in NRZ. SuggestedRemedy Change "200GAUI-4 or 400GAUI-8" to "200GAUI-n or 400GAUI-n". Proposed Response Response Status O
Image: Notice P 201 L 46 # 4 an, Adee Intel Comment Type T Comment Status	Cl 120 SC 120.5.11.2.4 P 201 L 46 # 2
The problem with square wave is related to the CDR functionality of the PMA at the receive side of the 200GAUI-4 or 400GAUI-8 (whether or not it is adjacent to the PMD). There is nothing anywhere else in this clause that states that the PMA _receiver_ expects a CDR-friendly pattern and may not work well with a square wave (or, for that matter, with SSPR). This can occur even if there is no PMD in the system under test.	Comment TypeTComment StatusDThe "note that" sentence is a part of normative text (see style manual 16.1), but it is not clear how it specifies anything: "may" means "is allowed to", but this clause specifies the PMA and the PMA has no special "allowance" (in the current text; see another comment) for not forwarding data correctly when the data is a square wave.
There is actually no specified receiver behavior for patterns other than PCS data and PRBS31/PRBS31Q. SSPR and square ware are used for transmitter testing but we do not	Also this "note" is hard to find in the middle of this long run-on paragraph (inserting it mad it even longer)

PRBS31/PRBS31Q. SSPR and square ware are used for transmitter testing but we do not expect receivers to work well with them. But as the text stands there is no special treatment for these patterns - the AUI annexes requirements apply just the same, with their patter-agnostic BER statements. This is an overkill and probably not what we intend.

The text should state clearly that the receiver is not expected to cope with this kind of patterns.

This subclause deals with a transmitted test pattern, so it seems like a bad place to put such a statement. A better place to do that would be 120.5.1 which is titled "Per input-lane clock and data recovery". Alternatively it can be added to the BER subclause in each of the AUI annexes.

SuggestedRemedy

Add a paragraph in 120.5.1:

"Clock and data recovery specifications apply for receiving PCS encoded data or PRBS31/PRBS31Q test patterns. Feeding other patterns (such as square wave or SSPR/SSPRQ) into a PMA through a physically instantiated interface may yield unexpected results".

Proposed Response Response Status **O**

Add an informative note paragraph at the end of this subclause (after the "When enabled" paragraph):

"NOTE--A square wave is not guaranteed to appear correctly on the output of a 200GAUI-4 or

It would be better to have this text stand out as an informative note (in a separate

Delete the sentence "Note that if a square wave is transmitted through a 200GAUI-4 or

400GAUI-8 it may not be correctly forwarded to the output of the PMD sublayer", and

400GAUI-8 PMD."

SuggestedRemedy

Proposed Response Response Status **0**

instead insert a paragraph break.

paragraph) after describing what the feature actually is.

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/ 120 SC 120.5.11.2.4 Page 3 of 15 19/12/2016 08:31:28

120B SC 120B P 333 L 8 # 52	C/ 120C SC 120C P 340 L 9 # 55
akai, Toshiaki Socionext	Sakai, Toshiaki Socionext
omment Type E Comment Status D	Comment Type E Comment Status D
(200GAU-8) expression does not distingish chip-to-chip and chip-to-module. In 802.3cd draft, it is like (50GAUI-2 C2C) or (100GAUI-4 C2C). To be consistent, using (200GAUI-8 C2C) is better.	(400GAU-16) expression does not distingish chip-to-chip and chip-to-module. In 802.3cd draft, it is like (50GAUI-2 C2M) or (100GAUI-4 C2M). To be consistent, using (400GAUI-16 C2M) is better.
uggestedRemedy	SuggestedRemedy
For all the applicable words in Annex 120B. Change (200GAUI-8) to (200GAUI-8 C2C).	For all the applicable words in Annex 120C. Change (400GAUI-16) to (400GAUI-16 C2M).
roposed Response Response Status W	Proposed Response Response Status W
[Editor's note: This comment was sent after the close of the comment period]	[Editor's note: This comment was sent after the close of the comment period]
120B SC 120B P 333 L 9 # 53	C/ 120D SC 120D P 348 L 8 # 56
akai, Toshiaki Socionext	Sakai, Toshiaki Socionext
omment Type E Comment Status D	Comment Type E Comment Status D
(400GAU-16) expression does not distingish chip-to-chip and chip-to-module. In 802.3cd draft, it is like (50GAUI-2 C2C) or (100GAUI-4 C2C). To be consistent, using (400GAUI-16 C2C) is better.	(200GAU-4) expression does not distingish chip-to-chip and chip-to-module. In 802.3cd draft, it is like (50GAUI-2 C2C) or (100GAUI-4 C2C). To be consistent, using (200GAUI-4 C2C) is better.
uggestedRemedy	SuggestedRemedy
For all the applicable words in Annex 120B. Change (400GAUI-16) to (400GAUI-16 C2C).	For all the applicable words in Annex 120D. Change (200GAUI-4) to (200GAUI-4 C2C).
roposed Response Response Status W	Proposed Response Response Status W
[Editor's note: This comment was sent after the close of the comment period]	[Editor's note: This comment was sent after the close of the comment period]
120C SC 120C P 340 L 8 # 54	C/ 120D SC 120D P 348 L 9 # 57
akai, Toshiaki Socionext	Sakai, Toshiaki Socionext
omment Type E Comment Status D	Comment Type E Comment Status D
(200GAU-8) expression does not distingish chip-to-chip and chip-to-module. In 802.3cd draft, it is like (50GAUI-2 C2M) or (100GAUI-4 C2M). To be consistent, using (200GAUI-8 C2M) is better.	(400GAU-8) expression does not distingish chip-to-chip and chip-to-module. In 802.3cd draft, it is like (50GAUI-2 C2C) or (100GAUI-4 C2C). To be consistent, using (400GAUI-8 C2C) is better.
uggestedRemedy	SuggestedRemedy
For all the applicable words in Annex 120C. Change (200GAUI-8) to (200GAUI-8 C2M).	For all the applicable words in Annex 120D. Change (400GAUI-8) to (400GAUI-8 C2C).
roposed Response Response Status W	Proposed Response Response Status W
[Editor's note: This comment was sent after the close of the comment period]	[Editor's note: This comment was sent after the close of the comment period]

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
 120D

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC
 120D

 SORT ORDER: Clause, Subclause, page, line
 SC
 120D
 SC
 120D

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C/ 120D	SC 120D.3.1.1	P 352	L 28	# 29
Ran, Adee		Intel		

Comment Type TR Comment Status D

There seems to be a mismatch between the transmitter jitter specifications and the A_DD parameter.

Looking at the precedence in 83D:

The maximum effective DJ allowance for the transmitter is 0.1 UI PtP (Table 83D–1)
 The channel is specified with COM parameter A_DD=0.05 (Table 83D–6), corresponding to 0.1 UI PtP.

In the current annex:

- Transmitter DJ is not specified directly, but using equations 120D-9 and 120D-10 with the maximum specified J4 (0.118 UI) and JRMS (0.019 UI) yields A_DD=0.015 and sigma_RJ=0.011

- The channel is specified with COM paremeter A_DD=0.02 and sigma_RJ=0.01.

If the equations are correct, this means the channel specification assumes a significantly worse transmitter than what is actually allowed, and the transmitter specification may be relaxed.

SuggestedRemedy

Change specification to values that would yield the same values of A_DD and sigma_RJ from equations 120D-9 and 120D-10 as the values in table 120D-8. (I could not find such values)

Proposed Response Response Status O

C/ 120D	SC 120D.3.1.1	P 352	L 43	# 38
Dawe, Piers		Mellanox		

Comment Type T Comment Status D

Following 52.9.9.3 and 86.8.3.3.1, this says "Each histogram should include at least 10^6 hits." Recommending such a detail (at least 10000 hits then) was OK for a single-lane stressed eye calibration in 52.9.9.3, and not right for a multi-lane yes/no product spec in 86.8.3.3.1, J2 Jitter, where the trade-off between margin and accuracy applies. But 10,000 hits x 4 or 10 lanes wasn't terrible, and we did not make the same mistake for J9. Here, we have a million hits, times multiple emphasis settings, times up to over a hundred lanes on each IC. It's far too much, and not necessary.

SuggestedRemedy

Delete "Each histogram should include at least 10⁶ hits". I considered adding words such as "to obtain an accurate measurement...", but a test engineer can work out what he needs for his own circumstances and should be free to do it.

Proposed Response Response Status W

[Editor's note: This comment was sent after the close of the comment period]

C/ 120D	SC 120D.3.1.1	P 352	L 43	# 39
Dawe, Piers	;	Mellanox		

Comment Type T Comment Status D

We don't need each of the 12 measurements to be within the J4 or Jrms limits; we just need the aggregate to do so because in COM we make all the edges have the jitter. Recognising this we can improve measurement time and cost 12-fold, which we need to do with multiple emphasis settings and up to over a hundred lanes on each IC.

SuggestedRemedy

After the first sentence, insert "Align the means of each histogram then add them together to obtain the the jitter probability density distribution."

Proposed Response Response Status W

[Editor's note: This comment was sent after the close of the comment period]

C/ 120D SC 120D.3.1.1 Page 5 of 15 19/12/2016 08:31:28

C/ 120D SC 120D.3.1.1 P 352 L 46 # 11 Ran, Adee Intel Int	C/ 120D SC 120D.3.1.1 P 352 L 50 # 13 Ran, Adee Intel Int
Comment Type T Comment Status D JRMS and J4 are defined twice in these two paragraphs. The second definition seems to be based on the first. I assume that the first paragraph defines these values for a specific transition. SuggestedRemedy Change FROM "J4 is defined as the time interval that includes all but 10–4 of the jitter probability density distribution, which is the time interval from the 0.005th to the 99.995th percentile of the jitter histogram. JRMS is defined as the RMS value of the jitter distribution." TO "J4(i) is defined as the time interval that includes all but 10–4 of the jitter probability density distribution for transition type i (i=1 to 12), which is the time interval from the 0.005th to the 99.995th percentile of the jitter histogram. JRMS(i) is defined as the RMS value of the jitter distribution." TO "J4(i) is defined as the time interval that includes all but 10–4 of the jitter probability density distribution for transition type i (i=1 to 12), which is the time interval from the 0.005th to the 99.995th percentile of the jitter histogram. JRMS(i) is defined as the RMS value of the jitter distribution for transition type i (i=1 to 12)." change FROM "J4 is the maximum of the 12 measurements. JRMS is the root mean square of the 12 measurements" TO "J4 is the maximum of the 12 measurements J4(i). JRMS is the root mean square of the 12 measurements JRMS(i)."	Comment Type T Comment Status D JRMS is defined as the RMS or RMS measurements. Assuming all measurements have the same number of samples, the RMS of RMS of equally-sized sets is the same as the std of the total population (which would include 12e6 samples). RMS'ing 12 times the number of samples is expected to yield almost the same result, but take much longer time. If the measurement is separated to transitions, each measurement can be made shorter by a factor of 10 and we'll still have a higher confidence level than with the previous method. As suggested in another comment, this can be justified for J4 measurement too. SuggestedRemedy Change "Each histogram should include at least 10^6 hits" to ""Each histogram should include at least 10^5 hits". Proposed Response Response Status O
Proposed Response Response Status O	

C/ 120D SC 120D.3.1.1

Ran, Adee	P 352 Intel	L 50	# 12	C/ 120D S Ran, Adee	SC 120D.3.1	.4	P 354 Intel	L 34	# 26
Comment Type TR	Comment Status D			Comment Typ	e TR	Comment			
J4 is defined as the max	imum of the measurements than the rest, this will cause			The curren linear fit p	nt steady-sta rocedure, wh	te voltage spe	cification uses ed separately f	or each equalize	termined from the r setting. This
jitter transition only occu	ansition is practically diluted rs in 1/12 of the transitions, pecific transition correspon- the decisions.	or 1/16 of the UI	s. With the new	be met in	all equalizati	on settings, an	d this is not th	e intent. Steady-	ble 120D–1 (0.4 V) will state voltage should be electrical clauses and
120D–9). This may be q	er is modeled as dual-dirac uite far from the actual jitter erage J4 across transitions	distribution if mo	st transitions have	TO "The linea	ROM r fit pulse, p(r fit pulse, p(ed according to		ocedure in 120D.3.1.3" ocedure in 120D.3.1.3
Proposed alternatives:				Proposed Res		Response S			
the samples of transition 2. Specify that J4 is the This will reduce the effect	ach transition is defined as t i (so that it translates to 1e average of the highest n val ct of one transition. I sugges measurement method whic	-4 of the total pop ues of J4(i) (acro t n=6.	oulation). ss the 12 transitions).	Ran, Adee Comment Typ		Comment		L 34	# 27
separately; that method prevents domination of t	inherently creates some aven the worst one.	eraging between	transitions and	by a cross SuggestedRei	character. <i>medy</i>			· · · · · · · · · · · · · · · · · · ·	
Proposed Response	Response Status O			Change n	umbers and	parentheses to	o upright font.		
					`)xD7) between	"M" and "Nv".		
C/ 120D SC 120D.3.1.2	<i>P</i> 353 Cavium	L 33	# 46	Proposed Res	ponse	Response S	Status O		
Dudek, Mike									
Comment Type E The second sentence in	Comment Status D the paragraph already says There is no need to repeat		gnal levels are						
Comment Type E The second sentence in defined in 120D.3.1.2.1. SuggestedRemedy	the paragraph already says	this.	-						

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/ 120D SC 120D.3.1.4 Page 7 of 15 19/12/2016 08:31:28

	C/ 120D SC 120D.3.1.7 P 356 L 23 # 32
an, Adee Intel	Hidaka, Yasuo Fujitsu Lab. of Americ
omment Type E Comment Status D (comment is about text that has not changed from D2.1)	Comment Type E Comment Status D Table 120D-7 is referred for the parameters of the CTLE, but Table 120D-7 is a table of 200GAUI-4 and 400GAUI-8 receiver jitter tolerance parameters.
Incorrect cross reference: 120D.3.1.2 describes transmitter linearity. The linear fit method is a different thing, and is described in 120D.3.1.3.	SuggestedRemedy
uggestedRemedy	Change "Table 120D-7" to "Table 120D-8".
Change cross reference from 120D.3.1.2 to 120D.3.1.3.	Proposed Response Response Status O
roposed Response Response Status O	
	CI 120D SC 120D.3.1.7 P 356 L 24 # 36
/ 120D SC 120D.3.1.7 P 356 L 23 # 33	Hidaka, Yasuo Fujitsu Lab. of Americ
daka, Yasuo Fujitsu Lab. of Americ	Comment Type T Comment Status D
Optimization of two parameters of the second-order CTLE as described in 93A.1.4.3 with parameters in Table 120D-8 is not required for the loss of package and test fixture. The CTLE defined for chip-to-module interface in 120E.3.1.7 should be sufficient. uggestedRemedy	ISI due to reflection, but also ISI due to over-equalization, because the CTLE in the COM parameter cannot suppress the high-frequency component. SuggestedRemedy
Change "SNR_ISI is defined by Equation (120D-8) computed from p_max and ISI_cursors after these have been re-calculated with the continuous time filter described in 93A.1.4.3 using the parameters in Table 120D-7 applied and optimized for maximum SNR_ISI." to "SNR_ISI is defined by Equation (120D-8) computed from p_max and ISI_cursors after these have been re-calculated with the selectable continuous time linear equalizer (CTLE) which is described in 120E.3.1.7 by Equation (120E-2) with coefficients in Table 120E-2	Change "The SNR_ISI specification shall be met for all transmit equalization settings." to "The SNR_ISI specification shall be met for all transmit equalization settings excepting those settings which makes the mean value of ISI_cursors always negative regardless of the continuous time filter settings." Proposed Response Response Status O
and illustrated in Figure 120E-9 applied and optimized for maximum SNR_ISI."	
roposed Response Response Status O	Cl 120D SC 120D.3.1.7 P 356 L 38 # 14 Ran, Adee Intel
120D SC 120D.3.1.7 P 356 L 23 # 47	Comment Type E Comment Status D
udek, Mike Cavium	Per the style manual (16.1), "Note" should be all-caps, followed by an em dash and use th note paragraph format.
omment Type T Comment Status D Table 120D-7 is the jitter amplitudes and frequencies for the stressed receiver test and is not relevant.	SuggestedRemedy per comment
Table 120D-7 is the jitter amplitudes and frequencies for the stressed receiver test and is	
Table 120D-7 is the jitter amplitudes and frequencies for the stressed receiver test and is not relevant. uggestedRemedy	per comment
Table 120D-7 is the jitter amplitudes and frequencies for the stressed receiver test and is not relevant. <i>iggestedRemedy</i> Change "Table 120D-7" to Table 120D-8, on line 23 and on line 36.	per comment

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/ 120D SC 120D.3.1.7 Page 8 of 15 19/12/2016 08:31:28

/ 120D SC 120D.3.1.7 P 356 L 38 # 34 idaka, Yasuo Fujitsu Lab. of Americ	C/ 120D SC 120D.3.1.8 P 356 L 40 # 48 Dudek, Mike Cavium
omment TypeEComment StatusDM and N_p are not defined in 85.8.3.3.5.N_b is not found in Table 120D-7.	Comment Type E Comment Status D It would read better if this Even-Odd Jitter section were placed next to the Output jitter section.
uggestedRemedy	SuggestedRemedy
Change "Note: M and N_p are defined in 85.8.3.3.5, and N_b is found in Table 120D-7." to	Make this a subsection 120D.3.1.1.2 . Also relabel the existing section 120D.3.1.1.as a sub-section 120D.3.1.1.1 called "J4 and Jrms"
"Note: M is defined in 85.8.3.3.4. N_p is defined in 120D.3.1.3. N_b is found in Table 120D- 8."	Proposed Response Response Status W
roposed Response Response Status O	[Editor's note: This comment was sent after the close of the comment period]
	C/ 120D SC 120D.3.1.8 P 356 L 40 # 16
/ 120D SC 120D.3.1.7 P 356 L 38 # 31	Ran, Adee Intel
wen, John GlobalFoundries	Comment Type E Comment Status D
omment Type E Comment Status D Incorrect table reference for parameter Nb	The first three paragraphs of 120D.3.1.8, describing even-odd jitter signal, transitions, thredholds, filter, and what other lanes are transmitting, seem to repeat the correpsonding text of "output jitter" in 120D.3.1.1. If there are any differences, they are difficult to identify
uggestedRemedy	text of output jitter in 1200.3.1.1. If there are any differences, they are difficult to identify
Replace Table 120D-7 with Table 120D-8	It would help the readers to have the even-odd jitter definitions within the output jitter subclause, share definitions where it is possible, and note differences where they exist.
roposed Response Response Status O	Subclause, share deminitions where it is possible, and note differences where they exist.
	Move the specific even-odd measurement text, p357 lines 1-25, to 120D.3.1.1, noting
/ 120D SC 120D.3.1.8 P 356 L 40 # 35	differences if there are any, with editorial license.
idaka, Yasuo Fujitsu Lab. of Americ	Delete 120D.3.1.8.
omment Type E Comment Status D Specification of jitter is split to 120D.3.1.1 and 120D.3.1.8.	Proposed Response Response Status O
uggestedRemedy Reorganize 120D.3.1.1 and 120D.3.1.8 as follows:	
120D.3.1.1 Output jitter 120D.3.1.1.1 J4 and J_RMS jitter 120D.3.1.1.2 Even-odd jitter	
Change the references in Table 120D-1 as follows:	
J_RMS (max) 120D.3.1.1.1 J4 (max) 120D.3.1.1.1	
Even-odd jitter (max) 120D.3.1.1.2	
roposed 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

C/ 120D SC 120D.3.1.8

C/ 120D SC 120D.3.1.8 P 356 L 50 # 17	C/ 120D SC 120D.3.2.1 P 358 L 14 # 30
Ran, Adee Intel	Ran, Adee Intel
Comment Type T Comment Status D	Comment Type TR Comment Status D
"Even-odd jitter is measured with a single-pole high-pass filter with a 3 dB bandwidth of 4 MHz"	As a sanity check, I calculated what would happen with a purely dual-dirac jitter (no RJ) equal to the specified J4, and with purely random jitter (no DD) equal to the specifed JRMS
What is this filter applied to?	In the first case, J4 is 0.0118 and JRMS would be sqrt(0.0118)=0.109; plugging these values to equations 120D-9 and 120D-10 yields A_DD=0.106 and sigma_RJ=0.192;
If this text stays here, it should refer to the CRU.	instead of the expected A_DD=0.0118 and sigma_RJ=0.
SuggestedRemedy Unless this text is deleted as a result of another comment, change it to state that "Even- odd jitter is measured with a clock recovery unit (CRU) with a corner frequency of 4 MHz and a slope of 20 dB/decade".	In the second case, JRMS is 0.023 and J4 would be 0.023*Q(1e-4/2)=0.09; plugging these values to equations 120D-9 and 120D-10 yields A_DD=0.022 and sigma_RJ=0.007; instead of the expected A_DD=0 and sigma_RJ=0.023.
Proposed Response Response Status O	The equations originated from comment #25 against D2.0 which has very little explanation. I have not found any further analysis and suspect that the equations may be incorrect.
	SuggestedRemedy
C/ 120D SC 120D.3.2.1 P 358 L 8 # 49	Correct the equations. I wil try to find a more detailed remedy for comment resolution.
Dudek, Mike Cavium	Proposed Response Response Status W
Comment Type T Comment Status D	
This is a follow up to the un-satisfied comment #118 on draft 2.1. The change to Np from 13 to 200 while calibrating the Interference Tolerance test allows the test system to have bad reflections after 13UI that won't appear in the measurement of TxSNDR (and hence input to TxSNR for the COM calibration). This will overstress the receiver.	[Eritor's note: Category set to T]
SuggestedRemedy	
Either use Np =13 for the measurement of the TxSNDR of the test transmitter	
Replace "The parameter SNRTX is set to the measured value of SNDR" with "The parameter SNRTX is set to the measured value of SNDR with Np=13,	
or add an extra very tight specification of SNRisi of 40dB for the test transmitter. (Variations in SNRisi of the test transmitter will cause repeatability issues in the interference tolerance test if not calibrated out by the first solution). Add an extra bullet after a) at line 53 page 357. SNRisi of the test transmitter shall be greater than 45dB.	
Proposed Response Response Status W	

[Editor's note: This comment was sent after the close of the comment period]

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/ 120D SC 120D.3.2.1 Page 10 of 15 19/12/2016 08:31:28

C/ 120D SC 120D.3.	2.2 <i>P</i> 359	L 21	# 15	C/ 120D SC 120D.4	P 360	L 18	# 61
Ran, Adee	Intel			Sakai, Toshiaki	Socionext		
Comment Type TR	Comment Status D			Comment Type T	Comment Status D		
	mismatch SJ in the jitter tolera	ance test and the	A_DD parameter.		80fF is not consistent with 802. large, and this will reduce COI		KR/CR) Cd=180fF.
Looking at the preced	lence in 83D: ified with COM parameter A_E	00-0 05 (Table 8	2D 6) corresponding	SuggestedRemedy			
to 0.1 UI PtP. The trai	nsmitter specification has the	same value allow	ed for effective DJ.	Change Cd value from	m "2.8 x 10^-4" to "1.8 x 10^-4"		
- The SJ stress at hig	h frequencies is 0.05 UI PtP (f	from Table 88–13	3).	Proposed Response	Response Status W		
	ress is 50% lower than the ma ressed (unless the transmitter			[Editor's note: This co	omment was sent after the close	se of the comme	ent period]
In the current annex				C/ 120D SC 120D.5	4.1 <i>P</i> 364	L 51	# 50
	ified with COM paremeter A_E	DD=0.02 correspo	onding to 0.04 UI PtP	Dudek, Mike	Cavium		
	fication may not match this val h frequencies is 0.05 UI PtP (`		nother comment)	Comment Type E There are no pics for	Comment Status D SNRisi or TxSNDR.		
	ress is 25% higher than the m even if the transmitter has no		for the transmitter; the	SuggestedRemedy Add Pics			
The SJ stress is supp scaled similarly.	osedly based on the CRU bar	ndwidth so all frec	quencies should be	Proposed Response	Response Status W		
	osedly based on the CRU bar	ndwidth so all frec	quencies should be	, ,	Response Status W	se of the comme	ent period]
scaled similarly.	so that the SJ is 0.04 UI PtP a			[Editor's note: This co C/ 120E SC 120E	omment was sent after the close	se of the comme L 8	ent period] # 58
scaled similarly. SuggestedRemedy Change table 120D-7 , 0.12 UI for case B, a	so that the SJ is 0.04 UI PtP a			[Editor's note: This co	omment was sent after the close		· · ·
scaled similarly. SuggestedRemedy Change table 120D-7	so that the SJ is 0.04 UI PtP and 4 UI for case A.			[Editor's note: This co C/ 120E SC 120E Sakai, Toshiaki Comment Type E	omment was sent after the clos P 365 Socionext Comment Status D	L 8	# 58
scaled similarly. SuggestedRemedy Change table 120D-7 , 0.12 UI for case B, a Proposed Response	so that the SJ is 0.04 UI PtP and 4 UI for case A.			[Editor's note: This co Cl 120E SC 120E Sakai, Toshiaki Comment Type E (200GAU-4) expressi	omment was sent after the clos P 365 Socionext Comment Status D on does not distingish chip-to- like (50GAUI-2 C2M) or (1000	L 8	# <u>58</u>
scaled similarly. SuggestedRemedy Change table 120D-7 , 0.12 UI for case B, a Proposed Response Cl 120D SC 120D.4 Sakai, Toshiaki	so that the SJ is 0.04 UI PtP and 4 UI for case A. Response Status O P 360 Socionext	at high frequencie	es (cases C, D and E)	[Editor's note: This co Cl 120E SC 120E Sakai, Toshiaki Comment Type E (200GAU-4) expressi In 802.3cd draft, it is	omment was sent after the clos P 365 Socionext Comment Status D on does not distingish chip-to- like (50GAUI-2 C2M) or (1000	L 8	# <u>58</u>
scaled similarly. SuggestedRemedy Change table 120D-7 , 0.12 UI for case B, a Proposed Response CI 120D SC 120D.4 Sakai, Toshiaki Comment Type T Tbale 120D-8, Zc=85	so that the SJ is 0.04 UI PtP and 4 UI for case A. Response Status O P 360 Socionext Comment Status D ohm is not consistent with 802	at high frequencie <i>L</i> 18 2.3cd value (50G	es (cases C, D and E) # <u>60</u> -KR/CR) Zc=90 ohm.	[Editor's note: This co <i>Cl</i> 120E <i>SC</i> 120E Sakai, Toshiaki <i>Comment Type</i> E (200GAU-4) expressi In 802.3cd draft, it is (200GAUI-4 C2M) is <i>SuggestedRemedy</i> For all the applicable	omment was sent after the clos P 365 Socionext Comment Status D on does not distingish chip-to- like (50GAUI-2 C2M) or (1000	L 8	# <u>58</u>
scaled similarly. SuggestedRemedy Change table 120D-7 , 0.12 UI for case B, a Proposed Response CI 120D SC 120D.4 Sakai, Toshiaki Comment Type T Tbale 120D-8, Zc=85 In 802.3cd, PKG rela	so that the SJ is 0.04 UI PtP and 4 UI for case A. Response Status O P 360 Socionext Comment Status D	at high frequencie <i>L</i> 18 2.3cd value (50G er discussion. It is	es (cases C, D and E) # 60 -KR/CR) Zc=90 ohm. s preferable to align	[Editor's note: This co <i>Cl</i> 120E <i>SC</i> 120E Sakai, Toshiaki <i>Comment Type</i> E (200GAU-4) expressi In 802.3cd draft, it is (200GAUI-4 C2M) is <i>SuggestedRemedy</i> For all the applicable	omment was sent after the close P 365 Socionext Comment Status D on does not distingish chip-to- like (50GAUI-2 C2M) or (1000 better. words in Annex 120E.	L 8	# <u>58</u> -module.
scaled similarly. SuggestedRemedy Change table 120D-7 , 0.12 UI for case B, a Proposed Response Cl 120D SC 120D.4 Sakai, Toshiaki Comment Type T Tbale 120D-8, Zc=85 In 802.3cd, PKG rela with the parameters, s 200G/400GAUI C2C.	so that the SJ is 0.04 UI PtP and 4 UI for case A. <i>Response Status</i> O <i>P</i> 360 Socionext <i>Comment Status</i> D ohm is not consistent with 800 ted COM parameters are under	at high frequencie <i>L</i> 18 2.3cd value (50G er discussion. It is	es (cases C, D and E) # 60 -KR/CR) Zc=90 ohm. s preferable to align	[Editor's note: This co Cl 120E SC 120E Sakai, Toshiaki Comment Type E (200GAU-4) expressi In 802.3cd draft, it is (200GAUI-4 C2M) is SuggestedRemedy For all the applicable Change (200GAUI-4) Proposed Response	omment was sent after the close P 365 Socionext Comment Status D on does not distingish chip-to- like (50GAUI-2 C2M) or (1000 better. words in Annex 120E. to (200GAUI-4 C2M).	L 8 chip and chip-to- GAUI-4 C2M). To	# 5 <u>8</u> -module.
scaled similarly. SuggestedRemedy Change table 120D-7 , 0.12 UI for case B, a Proposed Response C/ 120D SC 120D.4 Sakai, Toshiaki Comment Type T Tbale 120D-8, Zc=85 In 802.3cd, PKG rela with the parameters, s 200G/400GAUI C2C. SuggestedRemedy	so that the SJ is 0.04 UI PtP and 4 UI for case A. <i>Response Status</i> O <i>P</i> 360 Socionext <i>Comment Status</i> D ohm is not consistent with 800 ted COM parameters are under	at high frequencie <i>L</i> 18 2.3cd value (50G er discussion. It is chnage between	es (cases C, D and E) # 60 -KR/CR) Zc=90 ohm. s preferable to align	[Editor's note: This co Cl 120E SC 120E Sakai, Toshiaki Comment Type E (200GAU-4) expressi In 802.3cd draft, it is (200GAUI-4 C2M) is SuggestedRemedy For all the applicable Change (200GAUI-4) Proposed Response	P 365 Socionext Comment Status D on does not distingish chip-to- like (50GAUI-2 C2M) or (1000 better. words in Annex 120E. to (200GAUI-4 C2M). Response Status W	L 8 chip and chip-to- GAUI-4 C2M). To	# <u>58</u> -module. b be consistent, usin

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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C/ 120E Science Science <t< th=""><th>C/ 121 SC 121.8.4 P 223 L 9 # 5 Ran, Adee Intel</th></t<>	C/ 121 SC 121.8.4 P 223 L 9 # 5 Ran, Adee Intel
Comment Type E Comment Status D (400GAU-8) expression does not distingish chip-to-chip and chip-to-module. In 802.3cd draft, it is like (50GAUI-2 C2M) or (100GAUI-4 C2M). To be consistent, using (400GAUI-8 C2M) is better.	Comment Type T Comment Status D The response to comment #49 on D2.1 had the unfortunate effect that the OMA specification is now stated as conditional: "if measured using a test pattern specified" in all clauses.
SuggestedRemedy For all the applicable words in Annex 120E. Change (400GAUI-8) to (400GAUI-8 C2M).	Naturally the OMA has to be within the specified range regardless of the pattern (e.g. for data patterns too) and regardless of whether it is measured or not.
Proposed Response Response Status W	This applies to 121.8.4, 122.8.4, and 124.8.4.
	SuggestedRemedy
[Editor's note: This comment was sent after the close of the comment period]	Change in all three clauses FROM:
C/ 120E SC 120E.3.3.2.1 P 377 L 34 # 51 Dudek, Mike Cavium	"within the limits given in Table XXX if measured using a test pattern using specified for OMAouter in Table YYY"
Comment Type T Comment Status D There is no mention of error counters in 119.2.5.3	TO: "within the limits given in Table XXX. OMA_outer is measured using a test pattern specifie in Table YYY"
SuggestedRemedy Change "119.2.5.3" to "119.3.1"	(no change in the table numbers)
Also on page 380 line 4	Proposed Response Response Status O
Proposed Response Response Status W	C/ 121 SC 121.8.5.2 P 224 L 32 # 18
[Editor's note: This comment was sent after the close of the comment period]	Ran, Adee Intel
	Comment Type E Comment Status D
	(comment is about text that has not changed from D2.1)
	"DGD" appears in the row heading of table 121-11, and in the text line 51, without definition or explanation. It only appears expanded several pages later, in a footnote of table 121-13 which is the last occurence of "DGD" in this clause.
	Acronyms should be expanded and explained on the first usage.
	Comment applies to clause 122 too.
	SuggestedRemedy
	Move acronym expansion and explanation from footnote of table 121-13 to footnote of table 121-11 or within the text.
	Apply similar change in clause 122.

	.3 P 225	L 6	# 44	C/ 121	SC 121.8.5.	3 P 225	L 12	# 6
Dudek, Mike	Cavium			Ran, Adee		Intel		
confusion. The defition as the same name is weights this will effect Rx OMAouter will not	Comment Status D e equalized eye for measuring on is for TDECQ but by inferen used. Because the DC gain o t all the link budgeting. On a d equal the channel loss, becau he Rx signal. It also somewha	ce it is for all ON f the equalizer d ispersive channe se the tap weigh	Aouter measurements epends on the tap el Tx OMAouter minus ts will be different for	(if not, s Suggestedl	"OMA" be "ON specify what "(Remedy	Comment Status D MA_outer" which is define DMA" it is) MA_Outer" across this su	ed above?	
uggestedRemedy	ne fix signal. It also somewhat		le deminion in 121.0.4.	Proposed F		– Response Status C		
Put the gain Cdc into at dc.	the reference equalizer so that		qualizer has 0dB gain	C/ 121	SC 121.8.5.		-	# 41
Delete lines 1 and 2 c		121 0.		Dawe, Piers Comment 7		Mellano Comment Status		
Cdc which ensures th lines 4 to 9 on page 2 Alternatively clarify th in measuring the outp "OMAouter is measur	the 13. "The reference equalized the equalizer has unity DC (228 (including equation 121-10) at OMAouter used in TDECQ is but of the Tx or calibrating the s red according to 121.8.4 on the Aouter is measured on the equa	gain for all equal immediately aft s not the same a stressed input to equalized signa	zer settings." Move er this. Is the OMAouter used the Rx. Change I" to "For this	Suggested Do the Proposed F	tuning with the Response	e histogram windows use Response Status V	I	ent period]
	changes in clauses 122.8.5.4 (1.8.5.4 instead as the content			C/ 121 Dawe, Piers	SC 121.8.5.	3 P 225 Mellano		# 42
Proposed Response [Editor's note: This co	Response Status W	e of the comme	nt period]	-	should be load	Comment Status D ded with the amount of no ted for scope noise alrea	pise that could be add	
/ 121 SC 121.8.5. awe, Piers	.3 P 225 Mellanox	L 9	# 40	Suggestedl Add no		the the mean square erro	or calculation	
omment Type T	Comment Status D ent of whether averaging is use	d or not.		Proposed F	Response	Response Status V	I	
				[Editor's	s note: This co	omment was sent after th	e close of the comme	ent period]
SuggestedRemedy State that averaging is	s not used.							

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C/ 121 SC 121.8.5.3 Page 13 of 15 19/12/2016 08:31:28

C/ 121	SC 121.8.5.3	P 226	L 38	# 8	C/ 121	SC 121.8.5.3	P 226	L 53	# 9
Ran, Adee	30 121.0.3.3	Intel	L 30	# 0	Ran, Adee		Intel	L 33	# 9
Comment Ty		Comment Status D			Comment	51	Comment Status D		
places, i symbols	ncluding within t . Here it seems	ratio" is used (along with the this draft, referring to the _F to be used for _PAM4 symb to than the usual one. This i	EC symbol_ erro	or ratio, e.g. with 10-bit but it is not stated that	every o	0	in 121.1 is 2.4e-4. With Gray nslates to a single bit error so 8e-4.	, ,	
	this is a different meaning than the usual one. This may be very confusing for the reader.						sistent with the value of Qt, s	since the Q-func	tion yields
		etector error ratio (DER), the al receiver (PMD or AUI) de			Q(3.41	4)=3.2e-4.			
		BA.1.7, and it would be adec			It seen	ns that the correct	t value should be Q^-1(4.8e-	-4)=3.302.	
SuggestedR	emedy				Suggested	Remedy			
0	"symbol error ra uce an acronym	tio" to "detector error ratio" for this term.	three times in th	is subclause. No need		is another calcu spicion.	lation that yields the current	value, please cl	arify the text to prevent
Proposed Re	esponse	Response Status O			Otherw	vise:			
C/ 121	SC 121.8.5.3	P 226	L 47	# 10	Chang PAM4'	e from "is 3.414	consistent with the BER and	target symbol e	error ratio for Gray coded
Ran, Adee	121.0.0.0	Intel	1	# <u>10</u>	to "is 3		vith the target BER (see 121 ue to Gray coding".	.1) and using a	single bit error for every
Comment Ty Equatior		Comment Status D TDECQ in dB, but doesn't s	ay that.		Proposed I	Response	Response Status O		
Since thi	is value is used	in a specification it is good	to avoid confusio	on.					
SuggestedRe Add "(dE	emedy 3)" at the right of	this equation.							
_ ``		·							

Proposed Response Response Status O

C/ 121 SC 121.8.5.3

C/ 121	SC 121.8.5.3	P 227	L 2	# 7	I
Ran, Adee		Intel			1

Comment Type TR Comment Status D

The method of finding the "estimate of the partial symbol error ratio" is not clear; without a clear specification the definition of TDECQ is very ambiguous.

Reading the sentence "Each element of the cumulative probability function Cf1(yi) is multiplied by a value Gth1(yi), and then summed to calculate an approximation for the partial symbol error ratio (SER) for threshold 1."

The operation that should be performed is not clear from the text. Trying to guess what should be done I find some mathematical difficulties.

To find the SER estimate we should really find the value of the "bathtub function" at the threshold level. Cf1 definition makes it sort-of a bathtub function - it approaches 0.25 at the lowset values of yi, 0.75 at the highest values, and has a minimum at the threshold Pth1 (Cf1 is not a CDF since a CDF should start at 0 and rise monotonically to 1).

If each element of Cf1 at index yi is multiplied by a corresponding value of Gth1 at the same index yi (as the text suggests), then Gth2 is a weighting function operating on a bathtub function. What does that achieve?

"and then summed" suggests a convolution operation, but this is not obvious (I am not sure it is) and there is no equation that one can follow. Why should the bathtub function be summed? It is already cumulative; we only need the value at a specific point.

Assuming this is a convolution, this seems like incorrect math. A convolution between two PDFs of two independent variables yields the PDF of the sum of the variables; but here we have a PDF for one thing (approximated Gaussian noise Gth1(yi)) and a "bathtub curve" CF1(y1) for another thing (measured data). To add noise to the measured data, the convolution should be between Gth1(yi) and the normalized histogram f(yi); and then a bathtub function of the should can be calculated. From that bathtub function we can estimate the partial SER of that specific thredhold.

Note also that the total SER is the sum of partial SERs divided by 4 - not the sum as currently written - since each partial SER is a conditional probability (error rate given that the signal is within a specific eye); there is a probablity of 1/4 to be at each of the 3 eyes plus 1/4 to be "outside of all eyes".

SuggestedRemedy

If the intent is to model adding Gaussian noise to the measured data: change the text so that the process is

- 1. f(y) is convolved with Gth(y) to yield fn1(y) (incldue equation)
- 2. fn1(y) is integrated to create bathtub function BF1(y) (include equation)
- 3. The value of BF1(y) at pth1 is the SER1, the partial SER for threshold 1
- 4. repeat for thresholds 2, 3
- 5. The total SER estimate is (SER1+SER2+SER3)/4.
- 6. adjust sigma_G so that the total SER from the previous steps becomes 4.8e-4.

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If there is another intent then please write clearly what is to be done here.

Proposed Response Response Status **O**

C/ 122 SC 122.7.3	P 255	L 32	# 45
Dudek, Mike	Cavium		

Comment Type T Comment Status D

The footnote to the channel insertion loss is strange. Saying that it won't support operation at 10km isn't true if the channel insertion loss meets the 6.3dB specification. (which is a normative specification in table 122-17). It also isn't specific to 400GBASE-LR8 and would apply to 200GBASE-LR4 as well.

SuggestedRemedy

Delete the footnote here and add a footnote to the 6.3 in table 122-17 that says "To meet this specification with 10km of fiber using the 0.46dB/km at 1272.55nm attenuation for optical fiber cables derived from Appendix I of ITU-T G.695 the connection insertion loss must be less than 2dB." It might be better to amend 122.11.2.1 instead to use a lower allocation for connection and splice loss (1.6dB). Then the footnote would not be needed.

Proposed Response Response Status W

[Editor's note: This comment was sent after the close of the comment period]

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