C/         114         SC         114.6.3.3         P96         L 34         #         1           McDermott, Thomas         Fujitsu         Fujitsu	C/ 114 SC 114.1.3 P44 L10 # 2 Chalupsky, David Intel
Comment Type TR Comment Status D The text describes the "test procedure" essentially as	Comment Type <b>T</b> Comment Status <b>D</b> Figure 114-1 is just a generic diagram. Make it P802.3bv specific
For each receive parameter in all receive parameters: For each transmit parameter in all transmit parameters: For each fiber parameter in all fiber parameters:	SuggestedRemedy add "1000BASE'H" to the PCS block, "1000BASE-RHA, RHB or RHC" near the medium block
Make sure it works.	Proposed Response Response Status W
This requires on the order of N^3 tests, it could be described as "engineering qualification".	PROPOSED ACCEPT IN PRINCIPLE.
The expectation perhaps of both manufacturers and users of the specification is that some subset of corner cases is identified that highlight the significant worst-case conditions. Receive overload, receive minimum signal, fiber BW min, BW max, etc. These few cases	Add a bracket to the right of PCS and PMA blocks, with text "1000BASE-H", to indicate the 1000BASE-H comprises both the PCS and the PMA sublayers.
are then described as the "test procedure". Particularly, if in the field the link does not work, how is the user supposed to identify the problem? They and the manufacturer need a few tests to isolate the issue. Neither should be expected to run N^3 tests.	Add "1000BASE-RHx" near the medium block (to be consistent with response to comment #6).
	John, D'Ambrosia Futurewei, Subsidiary
uggestedRemedy	Comment Type E Comment Status D
Create the small suite of corner cases that assist resolution of non-performant situations should they arise. Re-title the existing document "test procedure".	Delay constraints is important and would be easy to miss after environmental specifications, 114.12
Proposed Response Response Status W	SuggestedRemedy
PROPOSED ACCEPT IN PRINCIPLE.	Moove 114.13 to before 114.12
Add proposal text 8023-114_rcvr_test_proc_190516.pdf after 114.6.3.3.	Proposed Response Response Status W

C/ <b>114</b> SC <b>114</b> John, D'Ambrosia	P <b>43</b> Futurewei, Su	L <b>1</b> bsidiary	# 4	C/ <b>114</b> SC <b>114.1</b> John, D'Ambrosia	P <b>43</b> Futurewei, S	L <b>8</b> ubsidiarv	# 6
Comment Type ER Why do PHYs use "R" ir SuggestedRemedy remove "R" from PHY na Proposed Response	Comment Status <b>D</b> the prefix? That is usually	,	h 64b/66b encoding.	Comment Type <b>TR</b> The draft refers to an and 1000BASE-RHC never named. The te This lack of clarify ma	Comment Status D d names three PMD sublayer . It talks about a family of 100 rm 1000BASE-RHx PHY is th akes it difficult to understand i . This is further confused by	s: 1000BASE-RH 0BASE-H family en referred to.	of PHYs, but they are PHY or family and
R in our port type names previous usage is in the for future development of		sed for optical ation of wavele es (R for red Ll onsistent (until <i>L</i> 44	wavelengths, where ngth is felt appropriate ED and G for green laser	add table defining the	HYs (name and description) so PHY and then the clause co e at bottom of stack - 1000BA 000BASE-H PCS"	relation - see tab	
Comment Type ER The term "GMII chunk" SuggestedRemedy add the definition for the Proposed Response PROPOSED REJECT. The term is local and is	Comment Status <b>D</b> is not added to the definition e term "GMII chunk" to 1.4" <i>Response Status</i> <b>W</b> not used outside of 114.2.4. of 1.4. Further, the TF also	1. Therefore, i		Attachment (PMA) su operation at 1000 Mb Three port types with 1000BASE-RHC (col For consistency: Pg 43, line 30: chang Pg 115, line 13: chan		Medium Depend iber (POF) as the 000BASE-RHA, ASE-RHx)". Ys" to "1000BAS ASE-H.	lent sublayers (PMD) for e transmission medium. 1000BASE-RHB, and

/ 114 SC 114.9.1 P108 L35 # 7	C/ 1 SC 1.4.22a P21 L25 # 9
bhn, D'Ambrosia Futurewei, Subsidiary	Kobayashi, Shigeru TE Connectivity
omment Type TR Comment Status D	Comment Type E Comment Status D
In the pics related to this section, only the STA transmission has a SHALL statement. IT would seem that the other main areas should have a corresponding "shall"	If "IEEE Std. 802.3" of IEEE Std. 802.3 Clause 144." indicates Clause 144 in this document, "IEEE Std. 802" is redundant.
Local PHY acceptance simultaneous operation	SuggestedRemedy
acceptance of a new message for transmission	Remove "IEEE Std. 802.3."
PHY reset	Proposed Response Response Status W
JggestedRemedy	PROPOSED REJECT.
Review entire subclause -         add 1000BASE-H Tx and 1000BASE-H Rx PICS         add specific PICS to the different operations noted above.         roposed Response       Response Status         W	The commenter is encouraged to look at IEEE Std 802.3 to see this is the style for definitions. They are written this way, so they can be put directly (without editing) into the IEEE Standards Dictionary.
PROPOSED REJECT.	C/ 1 SC 1.4.26a P21 L31 # 10
STA transmission of a 1000BASE-H OAM message has a SHALL statement in Pg 108, line	Kobayashi, Shigeru TE Connectivity
26.	Comment Type E Comment Status D
STA reception of a 1000BASE-H OAM message has a SHALL statement in Pg 110, line 28.	Same as above
SHALL statements for PHY operation are:	SuggestedRemedy
Pg 112, line 47: "The PHY operation for 1000BASE-H OAM message transmission shall	Same as above
conform to the 1000BASE-H OAM transmit control state diagram in Figure 114–38." and	Proposed Response Response Status W
Pg 114, line 6: "The PHY operation for 1000BASE-H OAM message reception shall	PROPOSED REJECT.
conform to the 1000BASE-H OAM receive control state diagram in Figure 114–39."	
/ 114 SC 114.9.2 P109 L4 # 8	See response to comment #9.
hn, D'Ambrosia Futurewei, Subsidiary	C/ 1 SC 1.4.26b P21 L35 # 11
omment Type TR Comment Status D	Kobayashi, Shigeru TE Connectivity
No associated SHALL statements for channel status messages.	Comment Type E Comment Status D
iggestedRemedy	Same as above
add appropriate SHALL statements	SuggestedRemedy
oposed Response Response Status W	Same as above
PROPOSED REJECT.	Proposed Response Response Status W
	PROPOSED REJECT.
1000BASE-H OAM channel status is a consequence of the PHY operation according to the state diagrams of Figure 114-38 and Figure 114-39. The shall statements are on the state diagrams, as indicated in response to comment #7. A general shall here would be redundant with those more detailed shall requirements.	See response to comment #9.

C/ 1 SC 1.4.26c Kobayashi, Shigeru	P <b>21</b> TE Connectivity	L <b>39</b>	# 12	C/ 1 SC 1.4.277c Kobayashi, Shigeru	P <b>22</b> TE Connectivity	L <b>17</b>	# 15
Comment Type E Same as above	Comment Status D			Comment Type E Same as above	Comment Status D		
SuggestedRemedy Same as above				<i>SuggestedRemedy</i> Same as above			
Proposed Response PROPOSED REJECT.	Response Status W			Proposed Response PROPOSED REJECT.	Response Status W		
See response to comm	nent #9.			See response to comm	ent #9.		
C/ 1 SC 1.4.26d Kobayashi, Shigeru	P <b>21</b> TE Connectivity	L <b>43</b>	# 13	Cl 1 SC 1.4.326a Kobayashi, Shigeru	P <b>22</b> TE Connectivity	L <b>22</b>	# 16
Comment Type E Same as above	Comment Status D			<i>Comment Type</i> <b>E</b> Same as above	Comment Status D		
SuggestedRemedy Same as above				SuggestedRemedy Same as above			
Proposed Response PROPOSED REJECT.	Response Status W			Proposed Response PROPOSED REJECT.	Response Status W		
See response to comm	nent #9.			See response to comm	ent #9.		
C/ 1 SC 1.4.91 Kobayashi, Shigeru	P <b>21</b> TE Connectivity	L <b>50</b>	# 14	Cl 1 SC 1.4.326b Kobayashi, Shigeru	P <b>22</b> TE Connectivity	L <b>26</b>	# 17
<i>Comment Type</i> <b>E</b> Same as above	Comment Status D			<i>Comment Type</i> <b>E</b> Same as above	Comment Status D		
SuggestedRemedy Same as above				<i>SuggestedRemedy</i> Same as above			
Proposed Response PROPOSED REJECT.	Response Status W			Proposed Response PROPOSED REJECT.	Response Status W		
See response to comm	nent #9.			See response to comm	ent #9.		

/ <b>1</b> SC <b>1.4.326c</b> obayashi, Shigeru	P <b>22</b> TE Connectivity	L <b>29</b>	# 18	Cl 1 SC 1.4.261 Kobayashi, Shigeru	b P21 TE Connectivity	L <b>35</b>	# 21
omment Type E Same as above	Comment Status D			<i>Comment Type</i> <b>T</b> Same as above	Comment Status D		
uggestedRemedy Same as above				SuggestedRemedy Same as above			
roposed Response PROPOSED REJECT.	Response Status W			Proposed Response PROPOSED ACCEF	Response Status W PT IN PRINCIPLE.		
See response to comm	ent #9.			See response to con	nment #20.		
/ 1 SC 1.4.401 obayashi, Shigeru	P <b>22</b> TE Connectivity	L <b>34</b>	# 19	Cl 1 SC 1.4.260 Kobayashi, Shigeru	c P21 TE Connectivity	L <b>39</b>	# 22
omment Type <b>E</b> Same as above	Comment Status D			<i>Comment Type</i> <b>T</b> Same as above	Comment Status D		
uggestedRemedy Same as above				SuggestedRemedy Same as above			
roposed Response PROPOSED REJECT.	Response Status W			Proposed Response PROPOSED ACCEF	Response Status W PT IN PRINCIPLE.		
See response to comm	ent #9.			See response to con	nment #20.		
/ <b>1</b> SC <b>1.4.26a</b> obayashi, Shigeru	P <b>21</b> TE Connectivity	L <b>30</b>	# 20	Cl 1 SC 1.4.260 Kobayashi, Shigeru	d P21 TE Connectivity	L <b>43</b>	# 23
	Comment Status <b>D</b> a technical term. Any waveleng ight in the specific wavelength ra		as color but human	Comment Type <b>T</b> Same as above	Comment Status D		
uggestedRemedy	h" to "650 nm-wavelength", or "i	-	emove it.	SuggestedRemedy Same as above			
roposed Response PROPOSED ACCEPT	Response Status W	J I		Proposed Response PROPOSED ACCEF	Response Status W PT IN PRINCIPLE.		
	(approximately 650nm)"			See response to con	nment #20.		

C/ 114 SC 114.2 Kobayashi, Shigeru	P <b>46</b> TE Connectivity	L <b>8</b>	# 24	C/ <b>114</b> S Kobayashi, Sh	C 114	P <b>43</b> TE Connectivity	L1	# 27
					•			
"Multi-Level Coset Code" is alr	nment Status <b>D</b> eady defined as MLCC	in 1.5 Abbrevi	ations.	Comment Type PCS, PMA full-word a	and PMD are	Comment Status <b>D</b> shown many in this documen like "Physical Coding Sublay	t, and most of /er (PCS)"	them are indicate its
SuggestedRemedy Remove "Multi-Level Coset Co	de" here			SuggestedRer	nedy	s in 1.5 Abbreviations and use	. ,	s later
Proposed Response Resp PROPOSED REJECT.	oonse Status W			Proposed Res		Response Status W		
Though only the acronym could acronym expansion followed by sometimes even in text separa	y the acronym is parent	theses at the fi	rst use in a clause or	parenthesi	s in titles (docu	Il expansion of an acronym fo ment, clause and subclause at use in text is specifically inc	if first use), ar	nd optionally in figures.
Cl 114 SC 114.2 Kobayashi, Shigeru	P <b>46</b> TE Connectivity	L7	# 25	These iten	ns are already o	lefined in 1.4 and are listed ir d to repeat the definitions in 8	1.5 of IEEE	
Comment Type E Con "Physical Data Blocks" is alrea	nment Status <b>D</b> dy defined as PDB in 1	.5 Abbreviatior	ıs	C/ <b>1</b> S Kobayashi, Sh	C 1.5	P22 TE Connectivity	L	# 28
SuggestedRemedy Remove "Physical Data Blocks" here				Comment Type	e E	Comment Status D		
Proposed Response Resp PROPOSED REJECT.				SuggestedRer	·	the same as above.		
See response to comment #24				Proposed Res	ponse	Response Status W		
<i>Cl</i> <b>114</b> <i>SC</i> <b>114.2.4.1</b> Kobayashi, Shigeru	P <b>52</b> TE Connectivity	L <b>31</b>	# 26		ED REJECT.	Il expansion of an acronym fo	lowed by the	coronym in
Comment Type E Con Same as above	nment Status D			parenthesi	s in titles (docu	ment, clause and subclause t use in text is specifically inc	if first use), ar	nd optionally in figures.
SuggestedRemedy Same as above				<i>Cl</i> <b>114</b> େ Kobayashi, Sh	C 114.6.4.5 igeru	P <b>98</b> TE Connectivity	L <b>27</b>	# 29
Proposed Response Resp PROPOSED ACCEPT IN PRIM	oonse Status W			Comment Type (ER) has t	e E o be added unit	Comment Status D		
Replace Pg 52, line 31, with: "The 64B/65B encoder generates a stream of PDBs, which are serially transmitted to the		SuggestedRen (ER in dB)						
binary scrambler."				Proposed Res PROPOSE	oonse ED ACCEPT IN	Response Status W PRINCIPLE.		
				Add "dΒ" ι	init to equation	(114-30).		
TYPE: TR/technical required ER/e COMMENT STATUS: D/dispatched SORT ORDER: Comment ID					nsatisfied Z/wi	Comment	ID <b>29</b>	Page 6 of 12 20/05/2016 9:58:

bayashi, Shigeru	P <b>98</b> TE Connectivi	L <b>48</b> ty	# 30	C/ 114 SC 114.6.3 Pérez-Aranda, Rubén	.1 <i>P</i> 95 KDPOF	L <b>22</b>	# 32
omment Type E C (mW) is fair but other unit sh uggestedRemedy Please show as (in mW) or o	Comment Status <b>D</b> nows with "in" in this pag others remove "in". esponse Status <b>W</b> RINCIPLE.			specification. To do t transmit signal has to is specified for rising In the market can be the ER in an small ra implementations whe valid for GEPOF ope operation.	Comment Status <b>D</b> specification is calculated con hat, it is taken into account the be larger than 0 to prevent s edge overshoot, because sym implementations of the PMD nge (considering aging, temp re larger ER variations are per ration, are able to allow different	at the minimum va ignal clipping/satu netry and linearity transmit function erature, process, ermitted. Both imp ent levels of overs	alue of optical power iration. The same limit of the signal transient with accurate control o etc) and other lementations, being shoot for correct
<b>114</b> SC <b>114.11</b> érez-Aranda, Rubén <i>comment Type</i> <b>T</b> C Transmit disable mapping co detect management functior		L16	# 31	meets the criterion of variations of ER sho Being said that, the r the actual ER, but no constrained specifica	with narrower control of ER ca no clipping. On the other har ald take care of providing more naximum value of the oversho t on the maximum specified E tion easier to implement.	nd, the implementation of the implementation of the controlled overs bot specification s	ations with larger hoot, to prevent cliping hould be dependent or
For 1000BASE-RHx, transm PHY receiver needs of PHY <i>lggestedRemedy</i> Add variable mapping for GI Modify Table 114-6 adding 2 + Global PMD transmit disal DISABLE + Global PMD transmit disal ENABLE	hit disable should produc transmitter to provide ar lobal PMD transmit disat 2 rows as follow: ble = 1   PMD transmit d	ny functionality ele register bit 1. disable register	9.0 to link_control. 1.9.0   link_control =	"100/(10^(ER/10) - 1 Add footnote a): "Ma transmit optical signa <i>Proposed Response</i> PROPOSED ACCEF Change footnote to: "Maximum permitted	ximum permitted overshoot de al extinction ratio per provided Response Status W	epends on the act equation." tual transmit ER.	ual value of the The equation gives the
THOROGED AGGEPT.				SuggestedRemedy The proper verb tens	NXP Semico <i>Comment Status</i> <b>D</b> a verb in this sentence and is	s not a word.	# 33

C/ 114         SC 114.3.5.2         P72         L2         # 34           Law, David         Hewlett Packard Enter         Hewlett Packard Enter	C/         114         SC         114.2.2.1         P48         L24         # 36           Pérez-Aranda, Rubén         KDPOF                36            36            36             36             36               36                36                36               36
Comment Type         ER         Comment Status         D           It appears that the state diagrams have not been drawn in Framemaker, for future maintainability please redraw all state diagrams using the native Framemaker drawing tools. In addition please follow the normal practice of the exit from states being at the	Comment Type         T         Comment Status         D           The requirement for the MLS generator used to generate the pilot S1 sub-block seems to be actually stated twice (page 48 line 24 and line 49), unless the shall statement of line 49 is intepreted as an additional reuirement to the figure 114-7.
bottom of the box, not from the side (e.g Figure 114–29—PHY quality monitor state diagram), and the flow being from top to bottom, not bottom to top (e.g. Figure 114–28—Adaptive THP REQ state diagram).	SuggestedRemedy Replace line 49 with: "The shift-register of Figure 114–7 shall produce the same result as the following MATLAB
SuggestedRemedy Please replace non-Framemaker figures with the new figures in 8023- 114_figure_comments_DL_060516.pdf attached to this comment.	(see 1.3) code." Proposed Response Response Status W
Proposed Response Response Status W PROPOSED ACCEPT.	PROPOSED ACCEPT IN PRINCIPLE. Suggested remedy does not solve the comment.
Cl 114       SC 114.7       P103       L39       # 35         Law, David       Hewlett Packard Enter       Hewlett Packard Enter         Comment Type       TR       Comment Status       D         The first sentence of subclause 114.7 'Characteristics of the fiber optic cabling (channel)' states that 'The fiber optic cable requirements are satisfied by cables containing IEC 60793-2-40 sub-category A4a.2 multimode plastic optical fibers.'. It is then stated that three fiber optic channel types are specified, and each of the types specified have a transfer function specification. On reading the response to unresolved D2.0 comment #159 it appears that this is placing additional requirements on the cables, over and above, but not in conflict with, IEC 60793-2-40 sub-category A4a. If this is the case this should be stated in the opening paragraph.	Pg 48, line 24 through 28, change to: "The S1 generator shall produce an output of one pilot S1 sub-block per Transmit Block equivalent to the following steps: 1) A maximum length sequence (MLS) generator that produces the same output as the following MATLAB(footnote 2) (see 1.3) code(footnote 3) is used to generate a 128-bit binary sequence. This MATLAB code is equivalent to using the shift register shown in Figure 114–7 to generate a 128-bit binary sequence when the shift register is initialized for each pilot S1 sub-block generation with hexadecimal value of 0x172DB9D. << move MATLAB code of Pg 49, lines 1 through 8, to here >> The variable len is the length of the sequence to be generated (128 for S1), the variable out is the binary output, and the variable seed is the initialization value of the shift register ('172DB9D')."
SuggestedRemedy Suggest the first sentence of subclause 114.7 be changed to read '1000BASE-RHx operation requires fiber optic cable meeting the requirements of IEC 60793-2-40 sub- category A4a.2 multimode plastic optical fibers with appropriate augmentation as specified in this subclause.'.	Delete Pg 48, lines 49 and 50. Change Pg 49, line 27 to: "The S2 generator shall produce an output of 13 pilot S2 sub-blocks per Transmit Block equivalent to the following steps:"

Proposed Response

PROPOSED ACCEPT.

Response Status W

C/ <b>114</b> SC <b>114.2.2.1</b> Pérez-Aranda, Rubén	Р <b>48</b> КDPOF	L <b>54</b>	# 37
Comment Type E Add period to the end of	Comment Status <b>D</b> the footnote 3).		
SuggestedRemedy Per comment			
Proposed Response PROPOSED ACCEPT.	Response Status W		

C/ 114 SC 114.2.4.3		L <b>5</b>	# 38	C/ 114	SC 114	P43	L <b>24</b>	# 40
Pérez-Aranda, Rubén	KDPOF			Perez-Arar	nda, Rubén	KDPOF		
Comment Type E	Comment Status D			Comment	Type E	Comment Status D		
Several uses of "transfe	ered" that should be "transfer	red"		The ter	rm "in-line" con	nection is used to indicate a c	onnection used t	o connect fiber optic
SuggestedRemedy						er. However, it is more commo ction. See for example clause &		se of the term
Per comment				Suggested	lRemedv			
Proposed Response	Response Status W			00	ge "in-line" with	"intermediate"		
PROPOSED ACCEPT.				Proposed I	Response	Response Status W		
C/ 114 SC 114.2.4.3	8.1 <i>P</i> 57	L <b>51</b>	# 39	PROP	OSED ACCEP	Т.		
Pérez-Aranda, Rubén	KDPOF			C/ 114	SC 114.7	P103	L <b>40</b>	# 41
Comment Type T	Comment Status D				nda, Rubén	KDPOF	240	
Requirement can be im	proved including in an unique	e shall statemen	t the specific bits		,			
	CC level. The figure that has			Comment	51	Comment Status D		
included again to illustr	rate demultiplexing process.			The fib	per optic cabling	g model (channel) is not clearly	y defined as the	cable from MDI to MDI.
SuggestedRemedy				Suggested	Remedy			
"The 3150 information two flows, being the bit transferred to the BCH from 0 through 416 and	blause 114.2.4.3.1 with: bits to be encoded in an MLC s 7xk + j, for all k from 0 throu encoder of the first MLCC lev d all j from 4 through 6, and th nd MLCC level, preserving the	ugh 416 and all j vel, and being th e bits from 2919	from 0 through 3, e bits 7xk + j, for all k 9 through 3149	figure t "A link (chann purpos	to illustrate the uses two fibers hel) defined her ses."	ust before the subclause 114.7 model. Move the following tex s, one for each direction (see 1 e is a simplex fiber optic link s	t from 114.7 to n 14.1.5). The fibe egment, which is	ew subclause: er optic cabling model s sufficient for testing
				Delete	: "The term cha	annel is used here for consiste	ncy with generic	cabling standards."
	tes the operation of the MLCC rom 0 through 416 and bit trip			Proposed I	Response	Response Status Z		

quadruples a\_i with i from 0 through 416 and bit triples b\_i with i from 0 through 493 are the portions of information transferred to the first and to the second MLCC level, respectively. The term "4b" represents four bits groups, and the term "3b" represents three bits groups."

Add in Figure 114-17a, the figure 114-20 of D2.0.

Proposed Response	Response Status	W	
PROPOSED ACCEPT.			

This comment was WITHDRAWN by the commenter.

PROPOSED REJECT.

C/ FM     SC FM     P15     L     # 42       Thompson, Geoff     GraCaSI S.A.	C/ 00         SC 0         P         L         # 44           Thompson, Geoff         GraCaSI S.A.         44
Comment Type       ER       Comment Status       D         Pagination is incorrect.       There are two instances of pages 15 and 16 in the compare draft         SuggestedRemedy       Correct to match 802.3 draft convention so that printed page numbers match PDF page numbers.	Comment Type         TR         Comment Status         D           RE: Response to comment D2.0 #239.         Response is unsatisfactory, untrue and non-responsive. Without a cited specification for either a standard connector or a standard procedure for cutting a fiber and testing the termination this proposed standard doesn't have a prayer in the consumer commodity market and therfore FAILS the Broad Market Potential criterium.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	SuggestedRemedy See D2.0 comment 239
The clean version is correctly numbered for 802.3 balloting conventions. For future versions of the draft, update pagination / references of the book that includes the compare documents.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
C/     114     SC     114.12.5     P117     L 30     # 43       Thompson, Geoff     GraCaSI S.A.       Comment Type     TR     Comment Status     D	For automotive applications (RHC), the specification of the MDI connector is expected to be developed in other standardization body. ISO/TC 22/SC 32/WG10 has the mission of producing the specification of a MDI connector for GEPOF, among others specifications for automotive use of 1000BASE-RHC PHYs, like intermediate connectors, cable, harness, environmental tests, etc. These activities are outside the scope of 802.3.
Introductory clause is conditional, needs to be unconditional. SuggestedRemedy Change intro clause from: "Even when to this clause," to: "In all cases" Proposed Response Response Status W	For industrial automation applications (RHB), many MDI connectors are already standardized for cables IEC 60794-2-41 (buffered A4 fibers): SMA, ST, FC, SC, SC-RJ, Versatile Link, SMI, etc. Selection of the connector depends on the specific application, and it is outside the scope of this standard to point a default connector.
PROPOSED ACCEPT IN PRINCIPLE. Change first sentence to read: "1000BASE-RHx transceivers shall be Hazard Level 1 laser certified under any condition of operation (including a Light Emitting Diode (LED) as the optical signal source)."	For home-network applications (RHA) there is not standardized MDI connectors in ISO, IEC, etc, therefore no pointer can be provided. However, the extended practice from many years in POF consumer grade products is that plug-less terminated IEC 60794-2-41 POF cables are connected to the PMD through a receptacle in the MDI. The minimum set of specifications for interoperability has been identified by the P802.3bv MDI ad-hoc group.

Comment ID 44

Replace MDI subclause with text in RHA\_MDI\_proposal\_8023bv\_170516.pdf.

X 00         SC 0         P         L         # 45	CI 00 SC 0 P L # 47			
ompson, Geoff GraCaSI S.A.	Thompson, Geoff GraCaSI S.A.			
omment Type TR Comment Status D	Comment Type TR Comment Status D			
RE: Further response to comment D2.0 #239. Without a cited standard for how to parse	Pile-on to D2.0 Comment #155			
the link budget for facilities installation and qualify installed facilities fiber you cannot achieve a consumer commodity standard.	SuggestedRemedy			
lggestedRemedy				
See D2.0 comment 239	Proposed Response Response Status W			
oposed Response Response Status W	PROPOSED REJECT.			
PROPOSED REJECT.	In Pg 104, line 13, it is stated:			
The draft provides the pointers to the standards requested by the commenter.	"Any fiber optic channel including in-line connections shall meet the transfer function specification of each type. The number of supported in-line connections is not normative but instead depends on the specific in-line connection technology." (approved comment			
In 114.7.4 is stated: "The fiber optic channel shall meet the insertion loss specification per measurement	#40, term "in-line" will be replaced by "intermediate").			
according to ISO/IEC 14763-3, under spectral distribution and launch modal power	In 114.7.4 and 114.7.5 are provided pointers to ISO/IEC standards of measurement			
distribution at TP2 specified per EAF lower bound limits in 114.6.3.1."	methods of the insertion loss and the transfer function of the channel, respectively.			
In 114.7.5 is stated: "The fiber optic channel shall meet the transfer function specification per measurement according to IEC 60793-1-41, under spectral distribution and launch modal power	The link budget is given by the difference between min AOP in TP2 and the min AOP in TP3. The channel insertion loss is specified. So, as stated in 114.7.6, unallocated link margin may be used for in-line connections (connectors).			
distribution at TP2 specified per EAF lower bound limits in 114.6.3.1." In 114.6.4.11 is stated: "The modal power distribution (MPD) at TP2 shall meet the specifications of 114.6.3.1	Therefore, the specifications of the fiber optics channel are complete and consistent, and no text should be deleted.			
using an encircled angular flux (EAF) measurement method based on two-dimensional far	CI 00 SC 0 P L # 48			
field pattern data captured at TP2, which conforms to IEC 61300-3-53, defined for step- index multimode fibers."	Thompson, Geoff GraCaSI S.A.			
	Comment Type ER Comment Status D			
00     SC 0     P     L     # 46       nompson, Geoff     GraCaSI S.A.       omment Type     TR     Comment Status D	Pile-on to D2.0 Comment #171 & 173 with addition. It is expected that the first publication of 802.3bv as a standard will be as a standalone document, therefore your grounds for rejection are invalid.			
Pile-on to D2.0 Comment #209	SuggestedRemedy			
iggestedRemedy	The first use of MATLAB must properly indicate that it is a trademark. Insert "T" or appropriate symbol and a footnote if needed.			
	Proposed Response Response Status W			
oposed Response Response Status W PROPOSED REJECT.	PROPOSED REJECT.			
The same terminology is used in other clauses. See 802.3-2015, clauses: 87.10, 88.10, 89.9, 68.8, 75.9.1, 58.9.1, 59.9.1, etc etc.	See the two footnotes in Pg 48. The comment was properly implemented with editor's license.			
	In order to be consistent, P802.3/D2.1 followed the same footnote used in amendment 802.3bw. The commenter of #173 was satisfied with the implementation.			
PE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/	/general Comment ID 48 Page 11 of 1			
L. Invited in the interventional required of vigenerial required interventional of Maximum Annual Control and the interventional of				

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: Comment ID

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C/ 1	SC 1.4.91	P <b>21</b>	L <b>48</b>	# 49
Brown, Matt		Applied Micro		
Comment T	ype TR	Comment Status D		

The amendments to the definition are superfluous and gratuitous. The definition in 802.3-2015 does not impose particular details on related clauses other than the use of the first bit to differentiate data and control blocks. The phrase "mix of data and control" can mean no data and some control without the additional parenthetical. The new phrase "a set of" implies an intential group.

The IEEE-SA standards style manual says: "Each definition should be a brief, selfcontained description of the term in question and shall not contain any other information, such as requirements or elaborative text."

I would consider the amended text to be elaborative. It is also becoming prescriptive as it is dictating how the coding is to be specified.

## SuggestedRemedy

Delete all changes to the definition, except addition of the cross reference to Clause 114.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

Delete the parenthetical sentence "(possibly none)".

The rest of changes must remain, because they are neither "requirements nor elaborative text". The remainded changes provide information for the reader to understand that there are several codes that are different, but these codes share the name (i.e. 64B/65B) and the property of prepending a single bit to indicate wether the block contains only data or a mix of data and control information.