C/ 114 SC 114.4.1 Gilarranz, Alejandra	<i>Р</i> 80 КDPOF	L 22	# 1	C/ 114 Gilarranz	SC 114.4.2. , Alejandra	1 <i>P</i> 81 KDPOF	L 5	# 4
Comment Type E Singular used instead	Comment Status R of plural in text. "OAM messa	ge are written'	OAN	Commer Wroi	<i>it Type</i> E ng register bit nam	Comment Status R ne TX_REQ.		OAM
SuggestedRemedy Replace by text: "OAM	messages are written "			00	edRemedy ace register bit na	me in text by: "TXREQ".		
Response REJECT. Implementation of this See comment #305	Response Status C comment does not apply if re	medy of comme	nt #305 is accepted.		ECT.	Response Status C comment does not apply if re	emedy of comme	ent #305 is accepted.
Cl 114 SC 114.4.1 Gilarranz, Alejandra	Р 80 КDPOF	L 24	# 2	C/ 114 Gilarranz	SC 114.4.2. , Alejandra	1 P81 KDPOF	L 6	# 5
Comment Type E Missing full-stop at the	Comment Status R end of the sentence.		OAN			Comment Status R ame OAM_DATA1 and OAM_	DATAx in senter	OAM nce.
SuggestedRemedy Add missing full-stop.				00	edRemedy ace register field i	name in text by: "TXOAM_DA	TA1" and "TXO/	AM_DATAx".
Response REJECT. Implementation of this See comment #305	Response Status C comment does not apply if re	medy of comme	nt #305 is accepted.	Impl	ECT.	Response Status C comment does not apply if re	emedy of comme	ent #305 is accepted.
C/ 114 SC 114.4.2 Gilarranz, Alejandra	<i>Р</i> 80 КDPOF	L 42	# 3	Cl 114 Gilarranz	SC 114.4.3 , Alejandra	<i>Р</i> 81 КDPOF	L 49	# 6
Comment Type ER Wrong reference in tex OAM TX control register SuggestedRemedy	Comment Status R t "four control bits (TXREQ, er."	, TXMSGT, PHY	OAN T an MERT) in the	In th	ng register field na	Comment Status R ame OAM_DATA8 in sentence hs in section 114.4.3, OAM_E ATAx.		OAM IDATAx names appear
Replace reference by: TXOAM_CTRL registe		TXMSGT, PHYT	an MERT) in the	Repl		name in text by: "RXOAM_DA i in the rest of 114.4.3 paragra		
Response	Response Status C			Respons		Response Status C	ap.10.	
REJECT. Implementation of this See comment #305	comment does not apply if re	medy of comme	nt #305 is accepted.	REJ Imple	ECT.	comment does not apply if re	emedy of comme	ent #305 is accepted.

Cl 114 SC 114.4.4.1 Gilarranz, Alejandra	Р 82 КDPOF	L 50	# 7		C/ 114 SC 114.4 Gilarranz, Alejandra	1.4.2 P85 KDPOF	L 40	# 10
Comment Type E Typing error in word "c	Comment Status R communicat3.503.50ion"			OAM	Comment Type E Wrong register nar	Comment Status R ne "OAM Rx OAMDATA8" used	in description.	OAN
SuggestedRemedy Replace word by "com	munication"				SuggestedRemedy Replace register na	ame by "RXOAM_DATA8".		
Response	Response Status C				Response	Response Status C		
REJECT. Implementation of this See comment #305	comment does not apply if re	medy of comme	nt #305 is accept	ted.	REJECT. Implementation of See comment #30	this comment does not apply if r 5	emedy of comme	nt #305 is accepted.
Cl 114 SC 114.4.4.1 Gilarranz, Alejandra	P83 KDPOF	L 3	# 8		C/ 114 SC 114.2 Gilarranz, Alejandra	2.1 <i>P</i> 38 KDPOF	L 22	# 11
Comment Type E Wrong word "PHY" fou TXOAM_CTRL registe SuggestedRemedy	Comment Status R and in text: " shall update the r"	e value of PHY N	/IERT of the	OAM	blocks. The "Sub-F	Comment Status R ysical header sub-blocks are tag rame" term implies that there is not the case. This term is used in	a bigger entity ca	lled Frame containing
Replace text by : " sh Response	nall update the value of bit ME <i>Response Status</i> C	RT of the TXOA	AM_CTRL registe	r"	SuggestedRemedy Change the name Section)	of the Physical Header Sub-Frar	me by other term (e.g. Physical Header
REJECT. Implementation of this See comment #305	comment does not apply if re	medy of comme	nt #305 is accept	ted.	Response REJECT.	Response Status C		
C/ 114 SC 114.4.4.1		L 9	# 9		No changes will be	e made.		
Gilarranz, Alejandra Comment Type E	KDPOF Comment Status R Ime OAM DATAx in sentence			OAM		ontaining the PHS is the Transm eader Subframe (PHS) seems to		
SuggestedRemedy	name in text by: "TXOAM_DA					listinguish between the data enc k, subframe, whatever group of s		
Response REJECT. Implementation of this See comment #305	Response Status C comment does not apply if re	medy of comme	nt #305 is accept	ted.	frame defined in C	used in other 802.3 PHYs to ref lause 3. For example in Clause s erm "PHY frame" is used.		

Gilarranz, Alejandra	2.2.1 P40 KDPOF	L16	# 12	C/ 114 SC 114.2.4.3 Gilarranz, Alejandra	<i>Р49</i> КDPOF	L 42	# 15
Comment Type E Missing parenthesis	Comment Status A s after word "binary".			Comment Type E Typing error in word "en	Comment Status A capsulation".		
SuggestedRemedy Add parenthesis be	etween word "binary" and comma	character.		SuggestedRemedy Write "encapsulation" in	stead of "encpsulation".		
Response ACCEPT. See comment #129	Response Status C			Response ACCEPT.	Response Status C		
C/ 114 SC 114.2 Gilarranz, Alejandra	2.2.2 P41 KDPOF	L 2	# 13	Cl 114 SC 114.2.4.3 Gilarranz, Alejandra	Р 49 КDPOF	L 42	# 16
114.2.4.3.3, to mak	Comment Status A tions of S/P and B2D blocks to succe easier the definintions search provide the text.			Comment Type E Missing comma after "so SuggestedRemedy Proposed sentence: "Af encoded into 16-PAM sy	ter encapsulation and scran	nbling of GMII dat	ta stream, it is
,		s to subclause 1	14 2 4 3 3	Response	Response Status C		
Response ACCEPT.	definitions of S/P and B2D block <i>Response Status</i> C			ACCEPT IN PRINCIPLE See comment #85			# 47
Response ACCEPT. See comment #322 2/ 114 SC 114.2 Bilarranz, Alejandra Comment Type E	Response Status C	L13	# [<u>14</u>	See comment #85 Cl 114 SC 114.3.2.1. Gilarranz, Alejandra Comment Type E	1 P63 KDPOF <i>Comment Status</i> A leader Data definition" is pla	L1 aced in subclause	# 17

Cl 114 SC 114.3.2.1 Gilarranz, Alejandra	.4 <i>P</i> 68 KDPOF	L 31	# 18	Cl 114 SC 114.3.2.1 Gilarranz, Alejandra	.5 <i>P</i> 70 KDPOF	L 41	# 21
Comment Type E Typing error in variable	Comment Status R name loc_rcvr_hrd_lock.			Comment Type E Typing error. Duplicate	Comment Status A d word "start".		
SuggestedRemedy Replace variable name	with loc_rcvr_hdr_lock.			SuggestedRemedy Remove duplicated wo	rd.		
Response REJECT.	Response Status C			Response ACCEPT.	Response Status C		
Not found				Cl 45 SC 45.2.3.49 Gilarranz, Alejandra	Р 27 КDPOF	L 1	# 22
Cl 114 SC 114.3.2.1. Gilarranz, Alejandra	.4 P68 KDPOF	L 3	# 19	Comment Type E	Comment Status A		
Comment Type E Typing error in variable	Comment Status A name loc_rcvr_hrd_lock. in page 68, line 49, in variabl	e rmt rovr brd	lock	The same typing error	racter "!" appears in Subclau appears in the following Sub 5.2.3.52 (page 32) and 45.2.3	clause titles: 45.2	
SuggestedRemedy	e with loc rcvr hdr lock and			SuggestedRemedy Remove character "!".			
Response ACCEPT IN PRINCIPL	Response Status C			Response ACCEPT.	Response Status C		
	riable reporting the status of r ock, but not rmt_rcvr_hdr_loc		n of PHD in remote	Cl 45 SC 45.2.3.49 Gilarranz, Alejandra	.4 P28 KDPOF	L 14	# 23
C/ 114 SC 114.3.2.1. Gilarranz, Alejandra	.4 <i>P</i> 68 KDPOF	L 14	# 20	Comment Type E Missing parenthesis.	Comment Status R		
Comment Type E	Comment Status A taining definition of MAX HDI	D EAIL constant		SuggestedRemedy Add parenthesis at the	end of the sentence.		
SuggestedRemedy	to 114.3.2.1.5 to define "PHY	_		Response REJECT.	Response Status C		
Response ACCEPT IN PRINCIPL	Response Status C E.						
Replace MAX_HDR_F/	AIL in text and state diagram	with its value of 2	2.				

Cl 45 SC 45.2.3.50 Gilarranz, Alejandra	Р 29 КDPOF	L 14	# 24		Cl 45 SC 45.2.3.5 Gilarranz, Alejandra	0 <i>P</i> 29 KDPOF	L 43	# 27	
Comment Type E Typing error. Missing bla SuggestedRemedy	Comment Status A ank in text " thestate"			C45		Comment Status A error in the description field: " ars in the same table, line 45.	it is disable."		C45
Replace text by : " the	state"				SuggestedRemedy Replace text by " it i	s disabled "			
Response ACCEPT.	Response Status C				Response ACCEPT.	Response Status C			
C/ 45 SC 45.2.3.50 Gilarranz, Alejandra	Р 29 КDPOF	L 17	# 25		Cl 45 SC 45.2.3.5 Gilarranz, Alejandra	0 <i>P</i> 29 Kdpof	L 51	# 28	
Comment Type E Missing "the" word befor	Comment Status A re "state variable."			C45	Comment Type E	Comment Status A note text below table: "R/W=R	O=Read only "		C45
SuggestedRemedy Replace text "Returns th variable"	e value of state variable" b	y "Returns the valu	ue of the state		SuggestedRemedy Replace note by: "RO		,,,		
Response ACCEPT.	Response Status C				Response ACCEPT.	Response Status C			
Cl 45 SC 45.2.3.49.4 Gilarranz, Alejandra	4 <i>P</i> 28 KDPOF	L 14	# 26		C/ 45 SC 45.2.3.5 Gilarranz, Alejandra	0.5 <i>P</i> 30 KDPOF	L 23	# 29	
Comment Type E Missing parenthesis.	Comment Status A			C45	Comment Type E Typing error in text "	Comment Status A variable rem_rcvr_hdr_lock as	swhich reflects"		C45
SuggestedRemedy Add parenthesis at the e	end of the sentence.				SuggestedRemedy Replace text by " va	riable rem_rcvr_hdr_lock whicl	h reflects"		
Response ACCEPT IN PRINCIPLE This is corrected with su	Response Status C	#306, if accepted			Response ACCEPT IN PRINCIP See comment #364	Response Status CLE.			

C/ 45 SC 45.2.3.50.14 Gilarranz, Alejandra	4 <i>P</i> 31 KDPOF	L17	# 30	C/ 114 SC 114.2. Gilarranz, Alejandra	4.3.6 <i>P</i> 58 KDPOF	L 23	# 33
Comment Type E Missing description for su	Comment Status A bclauses 45.2.3.50.14 and	45.2.3.50.15.	C4		Comment Status A dexes "1" and "2" are not correct	et.	
SuggestedRemedy Add subclauses description	on.			SuggestedRemedy Replace subindexes	by "I" and "Q" for symbol "S^a	".	
Response ACCEPT IN PRINCIPLE. See comment #406	Response Status C			Response ACCEPT.	Response Status C		
C/ 114 SC 114.2 Gilarranz, Alejandra	<i>Р37 КDPOF</i>	L 49	# 31	C/ 114 SC 114.3. Gilarranz, Alejandra	1 P62 KDPOF	L 4	# 34
Comment Type E	Comment Status R itters performed by the PCS		OAI	Error in text "All the	Comment Status A PHD fiels are transmitted from	the least to the m	ore significant bit
SuggestedRemedy	nsmit functions performed b			SuggestedRemedy Replace "more signi	ficant bit" by "most significant b	pit" in text.	
. ,	Response Status C	y the r 00		Response ACCEPT.	Response Status C		
See comment #411				C/ 114 SC 114.3.		L 53	# 35
C/ 114 SC 114.2.4.3.4 Gilarranz, Alejandra	<i>Р</i> 56 КDРОF	L 14	# 32	Gilarranz, Alejandra	KDPOF Comment Status R		
Comment Type E	Comment Status A	aid to bolong to	the est of complex	"Normal idle" term is	used instead of "Normal Inter- ars in page 72, line 4.	gap" or "Idle".	
numbers.	variable "j" instead of "x" is s		o the set of complex	SuggestedRemedy	<i></i>		
SuggestedRemedy				Modify text by "(idles	,		
	For all x belonging to the set	t of complex hu	mpers."	Response REJECT.	Response Status C		
	Response Status C			REJEUT.			
ACCEPT IN PRINCIPLE. X belongs to C to be elim transformation.	inated, because it was alrea	ndy described in	the previous lattice	Use normal interfran See comment #359 For P72, L4, see cor	for P71, L53		

C/ 114 SC 114.3.2.3 Gilarranz, Alejandra	<i>Р78</i> КDPOF	L 30	# 36	Cl 114 SC 114.4.2 Gilarranz, Alejandra	Р 80 КDPOF	L 41	# 39
represented as n_d (d i SuggestedRemedy Replace noise variance	Comment Status A ariance is represented in figu s a subindex of n). This error e representation in figure by n	is found in figure		SuggestedRemedy	Comment Status R " and MDIO receive register ad MDIO receive registers to st <i>Response Status</i> C		
Response ACCEPT.	Response Status C			REJECT. Implementation of this See comment #305	s comment does not apply if re	medy of comme	nt #305 is accepted.
Cl 114 SC 114.3.3 Gilarranz, Alejandra Comment Type E	P 79 KDPOF Comment Status A	L13	# 37	Cl 114 SC 114.4.2 Gilarranz, Alejandra	1 <i>P</i> 81 KDPOF	L1	# 40
	114.3.3 and 114.3.5 is identic	cal.		Comment Type E Wrong register name	Comment Status R TX_OAM_CTRL.		OAM
Write a unique subclaus	se or make some differences	in text.		SuggestedRemedy Replace register nam	e in text by: "TXOAM_CTRL".		
Response ACCEPT IN PRINCIPL See comment #343	Response Status C E.			Response REJECT.	Response Status C	medy of comme	nt #305 is accented
Cl 114 SC 114.4.1 Gilarranz, Alejandra	<i>Р</i> 80 КDPOF	L 23	# 38	See comment #305			
Comment Type E	Comment Status R		OAM	Cl 114 SC 114.4.3 Gilarranz, Alejandra	<i>Р</i> 81 КDPOF	L 47	# 41
Bad reference to "Table SuggestedRemedy	9 114.4.2.1".			Comment Type E Missing blank in "If R	Comment Status R XVALis one"		OAM
Replace text by: " the described in 114.4.2.1.	message is copied to the cor	responding fields	s of the PHD as	SuggestedRemedy	()/AL is one "		
Response REJECT. Implementation of this of See comment #305	Response Status C	medy of commer	nt #305 is accepted.	Replace text by "If R> Response REJECT. Implementation of this See comment #305	Response Status C	medy of comme	nt #305 is accepted.

Comment ID 41

Cl 114 SC 114.4.3 Gilarranz, Alejandra	<i>Р</i> 82 КDPOF	L 41	# 42		C/ 114 Gilarranz, A	SC 114.4.4.2 Ilejandra	Р 85 КDPOF	L 43	# 45	
Comment Type E Missing reference for the	Comment Status R he receive OAM state diagran	n.		OAM	Comment 7 Wrong		Comment Status R ad_RxTBD8_event=TRUE"			OAM
SuggestedRemedy Replace text by: " as 44."	specified by the PHY OAM R	x control state di	iagram in Figure 11	14-	-		"read_OAMDATA8_event=	TRUE"		
Response REJECT.	Response Status C comment does not apply if re	medy of commer	nt #305 is accepted	J.			Response Status C	emedy of comme	ent #305 is accepte	ed.
Cl 114 SC 114.4.4.1 Gilarranz, Alejandra	Р 82 КDPOF	L 45	# 43		Cl 114 Gilarranz, A	SC 114.4.4.2 Ilejandra	P86 KDPOF	L 1	# 46	
Comment Type E Unnecesary full-stop in	Comment Status R			OAM	Comment 7 Error in	•••	Comment Status R local PHY then again waits	s for a new messa	ıge"	OAM
SuggestedRemedy Remove full-stop from					Suggestedl Replace	-	the local PHY waits again fo	or a new message	. "	
Response REJECT.	Response Status C	medy of commer	nt #305 is accepted	1.			Response Status C comment does not apply if r	remedy of comme	ent #305 is accepte	ed.
C/ 114 SC 114.4.4.2		L 41	# 44		Cl 114 Gilarranz, A	SC 114.4.4.2 Ilejandra	Р 86 КDPOF	L 3 7	# 47	
Gilarranz, Alejandra Comment Type E Unfinished sentence: "	KDPOF <i>Comment Status</i> R It is critical that this is the last	n		OAM			Comment Status R ariables used in the state dia as follows:"	agram 114-44 tha	t have not been	OAM
SuggestedRemedy Remove sentence.						e text by "The va	ariables used in the state di	agram 114-44 tha	at have not been	
Response	Response Status C				previou Response	siy introduced a	re defined as follows:" Response Status C			
REJECT. Implementation of this See comment #305	comment does not apply if re	medy of commer	nt #305 is accepted	1.	REJEC	entation of this	comment does not apply if	emedy of comme	ent #305 is accepte	ed.

Cl 114 SC 114.4.4.1 Gilarranz, Alejandra	Р 86 КDPOF	L 39	# 48	C/ 114 SC 114.8.5 Gilarranz, Alejandra	Р 94 КDPOF	L 38	# 51
Comment Type E Typing error. "This bits i	Comment Status R indicates the presence of"		OAM	Comment Type E Spureous sentence: "Ru	Comment Status A ben comment MDIO_interfa	ces"	
SuggestedRemedy Replace text by: "This b	it indicates the presence of	."		SuggestedRemedy Remove sentence.			
Response REJECT. Implementation of this of	Response Status C	nedy of commer	at #305 is accepted	Response ACCEPT.	Response Status C		
See comment #305		-		C/ 114 SC 114.2.2.1 Gilarranz, Alejandra	Р 39 КDPOF	L 37	# 52
C/ 114 SC 114.7 Gilarranz, Alejandra	Р 93 КDPOF	L9	# 49	Comment Type ER Reference to figure 114-	Comment Status A		
Comment Type E Missing parenthesis at t	Comment Status R the end of the sentence.			SuggestedRemedy			
SuggestedRemedy Add missing parenthesi Response	s. Response Status C			Change reference to figu Response ACCEPT.	Ire from 114-6 to 114-4. Response Status C		
REJECT. See comment #433				Cl 114 SC 114.2.2.2 Gilarranz, Alejandra	Р41 КDPOF	L 8	# 53
C/ 114 SC 114.8 Gilarranz, Alejandra	Р 93 КDPOF	L 26	# 50	3	Comment Status A e two unconnected operators	s (an adder and	a multiplier).
Comment Type E	Comment Status R t " measurement of bit error	r ratio of the link	"	SuggestedRemedy Remove unconnected (u	inused) operators from figure	e 114-8.	
uggestedRemedy	asurement of bit error rate of			Response ACCEPT. See comment #320.	Response Status C		
Response REJECT.	Response Status C						
Bit Error Ratio is correct Also change Modulatior	t. n Error Rate to Modulation Er	ror Ratio (MER)	in 114.3.2.3				

C/ 114 SC 114.3.2.1 . Gilarranz, Alejandra	3 <i>P</i> 67 KDPOF	L 3	# 54	Cl 45 SC 45.2.3.48.6 Gilarranz, Alejandra	<i>Р</i> 25 КDPOF	L 29	# 57
Comment Type ER	Comment Status A control state diagram" is de	picted after sub	clause 11.3.2.1.3. but it	Comment Type ER Table 45-121. RXOAM_E	Comment Status A DATA8 Name is missing. B ted after RX in registers na		OAM orrect. An underscore
SuggestedRemedy				SuggestedRemedy			
Move Figure 114-35 to	subcaluse 11.3.2.1.2.			Modify bit column assign	ment:		
Response ACCEPT.	Response Status C			3.509.15 for RXVAL 3.509.14:13 for Reserved Modify bit column assign 3.509.12 for RXMSGT			
Cl 114 SC 114.3.2.1. Gilarranz, Alejandra	5 <i>P</i> 71 KDPOF	L 23	# 55	3.509.11:0 for RXOAM_ 3.510.15:0 for RXOAM_ 3.511.15:0 for RXOAM_	DATA1		
SuggestedRemedy	Comment Status A enthesis appears at the end of ontains extra parenthesis.	of the sentence.		3.512.15:0 for RXOAM 3.513.15:0 for RXOAM 3.514.15:0 for RXOAM 3.515.15:0 for RXOAM 3.515.15:0 for RXOAM 3.516.15:0 for RXOAM	DATA4 DATA5 DATA6		
Response ACCEPT IN PRINCIPLI	Response Status C			Insert file for RXOAM_DA 3.517.15:0 for RXOAM_I	ATA8 register:		
Solved with remedy of c	comment #358			ACCEPT IN PRINCIPLE.	•	nt #306, if accept	ed
Cl 45 SC 45.2.3.48 Gilarranz, Alejandra	Р 23 КDPOF	L 32	# 56	<i>Cl</i> 45 <i>SC</i> 45.2.3.48.6 Gilarranz, Alejandra	Р 25 КDPOF	L 54	# 58
Comment Type ER Table 45-120. TXOAM_ TXOAM_DATA register	Comment Status A DATA8 Name is missing. Bi s.	t column is not o	OAM correct for	Comment Type ER Table 45-121. Wrong not	Comment Status A e below table: R/W=RO=F	Read only.	OAM
SuggestedRemedy Modify bit column assig 3.501.15:0 for TXOAM				The same error appears i SuggestedRemedy Replace note by: RO=Re			
3.502.15:0 for TXOAM 3.503.15:0 for TXOAM 3.504.15:0 for TXOAM 3.505.15:0 for TXOAM 3.506.15:0 for TXOAM 3.507.15:0 for TXOAM Insert file for TXOAM_ 3.508.15:0 for TXOAM	DATA2 DATA3 DATA4 DATA5 DATA6 DATA7 DATA8 register:			Response ACCEPT.	Response Status C		
Response	Response Status C						
ACCEPT IN PRINCIPLI This is corrected with su	E. uggested remedy of commer	nt #306, if accep	oted				

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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 58

Cl 45 SC 45.2.3.48.7 Gilarranz, Alejandra	7 P 26 KDPOF	L 3	# 59	Cl 45 SC 45.2.3.50 Gilarranz, Alejandra	Р 29 КDPOF	L 49	# 62	
Comment Type ER Typing error. "These reg	Comment Status A ister"		OAM	Comment Type ER Co Table 45-123. Error in Descri	omment Status A ption field. OAM is writ	tten instead of EE		C45
SuggestedRemedy Replace text by: "These Response ACCEPT.	registers" Response Status C			SuggestedRemedy Replace text by: 1 = The PHY has EEE ability 0 = The PHY does not have E	,			
C/ 45 SC 45.2.3.48.7		L 3	# 60	Response Res ACCEPT.	sponse Status C			
Gilarranz, Alejandra Comment Type ER Wrong register name OA	KDPOF Comment Status A		OAM	<i>Cl</i> 45 SC 45.2.3.50.1 Gilarranz, Alejandra	<i>Р</i> 30 КDPOF	L 3	# 63	
Response ACCEPT IN PRINCIPLE	by PHD.OAM.DATA0:7. <i>Response Status</i> C ggested remedy of comment <i>P</i> 29	#306, if accept	ed	Wrong state variable name "le SuggestedRemedy Replace "loc_rcvr_hdr_lock" v			er status description.	C45
Gilarranz, Alejandra Comment Type ER	KDPOF Comment Status A	200	C45	Cl 45 SC 45.2.3.50.9 Gilarranz, Alejandra	<i>Р</i> 30 КDPOF	L 43	# 64	
Table 45-123. Wrong reg SuggestedRemedy Replace " currently tra Description columns. Response	gister Description. nsmitting LPI" by " currentl <i>Response Status</i> C	y receiving LPI"	in both Name and	Comment Type ER Co Description is the same for bo SuggestedRemedy Replace text of subclause 45.	omment Status A oth subclauses 45.2.3.).9.	C45
ACCEPT.	,			received LPI signalling in the Response Res ACCEPT IN PRINCIPLE See comment #368	sponse Status C			

Cl 45 SC 45.2.3.51.1 Gilarranz, Alejandra	<i>Р</i> 31 КDPOF	L 38	# 65		C/ 114 SC 114.4.3 P 82 L 1 # 68 Gilarranz, Alejandra KDPOF KDPOF <t< th=""></t<>
Comment Type ER Error in equation "log2(10	<i>Comment Status</i> A 00.35)=1.1627"			C45	Comment Type ER Comment Status R OA Table 114-3. All cells related to "Message K Status" and "Message K-1 Status" have the same text.
SuggestedRemedy Replace equation value b	by "log2(10^0.35)=1.1627"				SuggestedRemedy Replace text in "Message K Status" and "Message K-1 Status" columns by:
Response ACCEPT IN PRINCIPLE. See comment #407	Response Status C				Message K Status Message K-1 Status
C/ 45 SC 45.2.3.50.1 Gilarranz, Alejandra	3 <i>P</i> 31 KDPOF	L14	# 66		Sent. Sent. ACK by remote PHY. Ack by remote PHY. ACK by remote ME. Ack by remote ME.
-	Comment Status A CAP.OAM" is written in Remot	e EEE ability d	escription.	C45	Sent. Sent. No ACK by remote PHY. Ack by remote PHY. No ACK by remote ME. Ack by remote ME.
SuggestedRemedy Replace PHD field by "Pł Response ACCEPT IN PRINCIPLE.	Response Status C				Sent. Sent. ACK by remote PHY. Ack by remote PHY. No ACK by remote ME. Ack by remote ME.
C/ 45 SC 45.2.3.53	P 32	L 28	# 67		Sent. Sent. No ACK by remote PHY. Ack by remote PHY. No ACK by remote ME. No Ack by remote ME.
Gilarranz, Alejandra Comment Type ER Table 45-126. Wrong valı	KDPOF Comment Status A ue of Bit column (3.521.14:0).			C45	Sent. Sent. ACK by remote PHY. Ack by remote PHY. ACK by remote ME. Ack by remote ME.
SuggestedRemedy Replace value by 3.522.1 Response	14:0 Response Status C				Sent. Sent. No ACK by remote PHY. Ack by remote PHY. No ACK by remote ME. Ack by remote ME.
ACCEPT.					Sent. Sent. ACK by remote PHY. Ack by remote PHY. No ACK by remote ME. Ack by remote ME.
					Sent. Sent. No ACK by remote PHY. Ack by remote PHY. No ACK by remote ME. No Ack by remote ME.
					Response Response Status C REJECT. Implementation of this comment does not apply if remedy of comment #305 is accepted. See comment #305

Comment ID 68

C/ 114 SC 114.4.4.2 P85 L 24 # 69 Gilarranz, Alejandra KDPOF KDPOF	C/ 114 SC 114.4.4.2 P85 L 19 # 71 Gilarranz, Alejandra KDPOF
Comment Type ER Comment Status R OAM Uncorrect register reference in text. " the field PHD.OAM.MSGT of a correctly received PHD block takes a value that is different from that of the bit TXOAM_CTRL bit MSGT." OAM	Comment Type ER Comment Status R OAM Wrong sentence: "Moreover, transmit bits set to received OAM values values shall also be set to 0." Set to 0." OAM
SuggestedRemedy Replace text by: " the field PHD.OAM.MSGT of a correctly received PHD block takes a value that is different from that of the RXOAM_CTRL bit RXMSGT."	SuggestedRemedy Replace text by "Moreover, transmit bits related to received OAM values shall also be set to 0."
Response Response Status C REJECT. Implementation of this comment does not apply if remedy of comment #305 is accepted. See comment #305	Response Response Status C REJECT. Implementation of this comment does not apply if remedy of comment #305 is accepted. See comment #305
Cl 114 SC 114.4.4.2 P85 L 29 # 70 Gilarranz, Alejandra KDPOF KD	C/ 114 SC 114.6.1 P92 L 14 # 72 Gilarranz, Alejandra KDPOF KDPOF <t< td=""></t<>
Comment Type ER Comment Status R OAM Extra word "and" found in text: " the content of the fields PHD.OAM.DATAx and PHD.OAM.HDR of the received PHD are and stored in the corresponding OAM_DATAx receive registers, and the 12-bit RXOAM_HDR of RXOAM_CTRL is also valid." OAM OAM_DATAx used instead of RXOAM_DATAx in the same sentence. SuggestedRemedy	Comment Type ER Comment Status A PCS to PMD Wrong first value in set "{M+1,-M+3,,M-3,M-1}" SuggestedRemedy PCS to PMD SuggestedRemedy Replace text by: "{-M+1,-M+3,,M-3,M-1}" PCS to PMD Response Response Status C
Replace text by: " the contents of the fields PHD.OAM.DATAx and PHD.OAM.HDR of the received PHD are stored in the corresponding RXOAM_DATAx registers and RXOAM_HDR field of RXOAM_CTRL register."	ACCEPT. C/ 114 SC 114.2.4.3.1 P51 L14 # 73
Response Response Status C	Gilarranz, Alejandra KDPOF
REJECT. Implementation of this comment does not apply if remedy of comment #305 is accepted. See comment #305	Comment Type T Comment Status A Numbers in description correspond to bits, and not to bits quadruples or bits triples. In the same text, "1917" has been written instead of "2917".
	SuggestedRemedy Replace text by: ", input bits 0 through 3, 7 through 10, 14 through 17, and so on up to 2912 to 2915 are assigned in order to the first level, and input bits 4, 5, 6, 11, 12, 13, 18,

Response

ACCEPT.

19, 20, and so on up to 2916, 2917, 2918 assigned in order to the second level."

Response Status C

C/ 114 SC 114.2.4.3 . Gilarranz, Alejandra	2 <i>P</i> 52 KDPOF	L 23	# 74	C/ 114 SC 114.1.4 Gilarranz, Alejandra	5 <i>P</i> 37 KDPOF	L12	# 77
<i>comment Type</i> T Figure 114-21. "s0" is w adder.	Comment Status A rritten in second storage posit	ion instead of "s	s1" after the first mod-2	Comment Type TR MDC line is drawn a MDIO line is drawn a	•		
uggestedRemedy Replace "s0" by "s1".				SuggestedRemedy Draw MDC line as a Draw MDIO line as a	•		
esponse ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
114 SC 114.2.4.3 . ilarranz, Alejandra	3 <i>P</i> 52 KDPOF	L 34	# 75	Cl 114 SC 114.2.2	2.1 <i>P</i> 39 KDPOF	L 45	# 78
<i>comment Type</i> T Number of two-dimension	Comment Status A onal symbols (988) is not corr	ect.		Comment Type TR	Comment Status A		
symbols."	:: " coded bits is mapped inf	o N_MLCC/2 = -	494 two-dimensional	SuggestedRemedy	eration by a subtraction operatio	on of constant 1 t	o at the output of B2
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
114 SC 114.1.4 larranz, Alejandra	<i>Р36</i> КDPOF	L 44	# 76	Cl 114 SC 114.2.4	1.3.3 <i>P</i> 53 KDPOF	L36	# 79
	Comment Status A itter of the local partner is cor eiver of the local partner is c			Comment Type TR	Comment Status A Inding up symbol in component	Q is wrong.	
uggestedRemedy Attach transmitter of the	e local partner to receiver of th	ne link partner a	nd viceversa.	SuggestedRemedy Replace rounding up	symbol with rounding down sy	mbol.	
esponse ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		

C/ 114 SC 114.2.4.4 Gilarranz, Alejandra	<i>Р</i> 60 КDPOF	L 23	# 80	C/ 114 SC 114.3.2.2.2 Gilarranz, Alejandra	<i>Р76 КDPOF</i>	L 20	# 83
Comment Type TR	Comment Status A			Comment Type TR Co	omment Status R		TH
In figure 114-32, express	sion [-2 ^k , -2 ^k) is incorrect.			Figure 114.41. Condition mus	st be added to transition	n from THPREQ_	REQUEST state to
SuggestedRemedy Replace expression with	[-2^k, 2^k)			THPREQ_UPDATE state, in new_thp_coef_event=TRUE receive symbol period for bot	happen at the same tin		
Response	Response Status C			SuggestedRemedy			
ACCEPT IN PRINCIPLE.	·			Replace condition to transition	n from THPREQ_REQ	UEST state to TH	HPREQ_UPDATE
0				state by:	_		_
See comment #330				"new_rxphd_event=TRUE * hdr_crc16_status=OK *			
C/ 114 SC 114.2.4.5	P 60	L 45	# 81	(REMPHD.TX.NEXT.THP.SE	EDIT=thp_setid) *		
Gilarranz, Alejandra	KDPOF			thp_pending=TRUE			
Comment Type TR	Comment Status A						
In equation 114-17 term	v(m) must be added instea	ad of subtracted.		•	sponse Status C		
				REJECT.			
SuggestedRemedy	(<i>)</i>			All the comments received to		are addressed in t	ext proposed in
SuggestedRemedy Replace equation with u((m) = x(m) + v(m)			All the comments received to attached file "perezaranda_G		are addressed in t	ext proposed in
SuggestedRemedy Replace equation with u(Response	(<i>)</i>				EPOF_5_0715"		
SuggestedRemedy Replace equation with u((m) = x(m) + v(m)			attached file "perezaranda_G The suggested remedy correct solve the problem commented	EPOF_5_0715" cts the ambiguity. How d in #448 and it is rejec	vever, the suggest	ted remedy does not
SuggestedRemedy Replace equation with u(Response	(m) = x(m) + v(m) Response Status C			attached file "perezaranda_G The suggested remedy correc	EPOF_5_0715" cts the ambiguity. How d in #448 and it is rejec	vever, the suggest	ted remedy does not
SuggestedRemedy Replace equation with u(Response ACCEPT. Figure 114-33 has to be r	(m) = x(m) + v(m) Response Status C	L 9	# 82	attached file "perezaranda_G The suggested remedy correct solve the problem commented	EPOF_5_0715" cts the ambiguity. How d in #448 and it is rejec	vever, the suggest	ted remedy does not
SuggestedRemedy Replace equation with u(Response ACCEPT. Figure 114-33 has to be n	(m) = x(m) + v(m) <i>Response Status</i> C modified accordingly.	L9	# 82	attached file "perezaranda_G The suggested remedy correct solve the problem commented attached file "perezaranda_G	EPOF_5_0715" cts the ambiguity. How d in #448 and it is reject EPOF_5_0715"	rever, the suggest cted in favor of te	ted remedy does not ext proposed in
SuggestedRemedy Replace equation with u(r Response ACCEPT. Figure 114-33 has to be r Cl 114 SC 114.2.4.5 Gilarranz, Alejandra	(m) = x(m) + v(m) <i>Response Status</i> C modified accordingly. <i>P</i> 61	L9	# 82	attached file "perezaranda_G The suggested remedy correct solve the problem commenter attached file "perezaranda_G <i>Cl</i> 114 SC 114.6.1 Gilarranz, Alejandra	EPOF_5_0715" cts the ambiguity. How d in #448 and it is reject EPOF_5_0715" P 92	rever, the suggest cted in favor of te	ted remedy does not ext proposed in
SuggestedRemedy Replace equation with u(Response ACCEPT. Figure 114-33 has to be r Cl 114 SC 114.2.4.5 Gilarranz, Alejandra Comment Type TR	(m) = x(m) + v(m) <i>Response Status</i> C modified accordingly. <i>P</i> 61 KDPOF			attached file "perezaranda_G The suggested remedy correct solve the problem commenter attached file "perezaranda_G <i>Cl</i> 114 SC 114.6.1 Gilarranz, Alejandra	EPOF_5_0715" cts the ambiguity. How d in #448 and it is reject EPOF_5_0715" P92 KDPOF omment Status A	rever, the suggest cted in favor of te L7	ted remedy does not ext proposed in # 84
SuggestedRemedy Replace equation with u(Response ACCEPT. Figure 114-33 has to be r Cl 114 SC 114.2.4.5 Bilarranz, Alejandra Comment Type TR In figure 114-33, v(m) ter	(m) = x(m) + v(m) <i>Response Status</i> C modified accordingly. <i>P</i> 61 KDPOF <i>Comment Status</i> A			attached file "perezaranda_G The suggested remedy correct solve the problem commenter attached file "perezaranda_G <i>Cl</i> 114 SC 114.6.1 Gilarranz, Alejandra <i>Comment Type</i> TR <i>Co</i> Equation 114-2. Subtraction of	EPOF_5_0715" cts the ambiguity. How d in #448 and it is reject EPOF_5_0715" P92 KDPOF omment Status A operation is not correct	rever, the suggest cted in favor of te L7	ted remedy does not ext proposed in # 84
SuggestedRemedy Replace equation with u(r Response ACCEPT. Figure 114-33 has to be r C/ 114 SC 114.2.4.5 Gilarranz, Alejandra Comment Type TR In figure 114-33, v(m) terr SuggestedRemedy	(m) = x(m) + v(m) <i>Response Status</i> C modified accordingly. <i>P</i> 61 KDPOF <i>Comment Status</i> A	should be added i		attached file "perezaranda_G The suggested remedy correct solve the problem commented attached file "perezaranda_G <i>Cl</i> 114 SC 114.6.1 Gilarranz, Alejandra <i>Comment Type</i> TR <i>Co</i>	EPOF_5_0715" cts the ambiguity. How d in #448 and it is reject EPOF_5_0715" P92 KDPOF comment Status A operation is not correct))	rever, the suggest cted in favor of te L7	ted remedy does not ext proposed in # 84
SuggestedRemedy Replace equation with u(Response ACCEPT. Figure 114-33 has to be n Cl 114 SC 114.2.4.5 Silarranz, Alejandra Comment Type TR In figure 114-33, v(m) term SuggestedRemedy Remove minus sign at the	(m) = x(m) + v(m) <i>Response Status</i> C modified accordingly. <i>P</i> 61 KDPOF <i>Comment Status</i> A m is subtracted to x(m). It s the adder input of v(m) in figu	should be added i		attached file "perezaranda_G The suggested remedy correct solve the problem commented attached file "perezaranda_G <i>Cl</i> 114 SC 114.6.1 Gilarranz, Alejandra <i>Comment Type</i> TR <i>Co</i> Equation 114-2. Subtraction of x(n)= SF(n)* F_M(a(n)-SUM(.	EPOF_5_0715" cts the ambiguity. How d in #448 and it is reject EPOF_5_0715" P92 KDPOF comment Status A operation is not correct))	rever, the suggest cted in favor of te L7	ted remedy does not ext proposed in # 84
Replace equation with u(Replace equation with u(Response ACCEPT. Figure 114-33 has to be n of 114 SC 114.2.4.5 Filarranz, Alejandra Comment Type TR In figure 114-33, v(m) term SuggestedRemedy Remove minus sign at the Response	(m) = x(m) + v(m) <i>Response Status</i> C modified accordingly. <i>P</i> 61 KDPOF <i>Comment Status</i> A rm is subtracted to x(m). It s	should be added i		attached file "perezaranda_G The suggested remedy correct solve the problem commenter attached file "perezaranda_G <i>Cl</i> 114 SC 114.6.1 Gilarranz, Alejandra <i>Comment Type</i> TR <i>Co</i> Equation 114-2. Subtraction of x(n)= SF(n)* F_M(a(n)-SUM(. = SF(n)* (a(n)+2M*m(n)-SU	EPOF_5_0715" cts the ambiguity. How d in #448 and it is reject EPOF_5_0715" P92 KDPOF comment Status A operation is not correct))	rever, the suggest cted in favor of te L7	ted remedy does not ext proposed in # 84
Replace equation with u(Replace equation with u(Response ACCEPT. Figure 114-33 has to be n of 114 SC 114.2.4.5 Filarranz, Alejandra Comment Type TR In figure 114-33, v(m) term SuggestedRemedy Remove minus sign at the	(m) = x(m) + v(m) <i>Response Status</i> C modified accordingly. <i>P</i> 61 KDPOF <i>Comment Status</i> A m is subtracted to x(m). It s the adder input of v(m) in figu	should be added i		attached file "perezaranda_G The suggested remedy correct solve the problem commenter attached file "perezaranda_G <i>Cl</i> 114 <i>SC</i> 114.6.1 Gilarranz, Alejandra <i>Comment Type</i> TR <i>Co</i> Equation 114-2. Subtraction of $x(n) = SF(n)^* F_M(a(n)-SUM(.$ $= SF(n)^* (a(n)+2M^*m(n)-SUM(.$ <i>SuggestedRemedy</i> Replace equation by $x(n) = SF(n)^* F_M(a(n)+SUM(.$	EPOF_5_0715" cts the ambiguity. How d in #448 and it is rejea EPOF_5_0715" P92 KDPOF omment Status A operation is not correct)) JM())	rever, the suggest cted in favor of te L7	ted remedy does not ext proposed in # 84
SuggestedRemedy Replace equation with u(Response ACCEPT. Figure 114-33 has to be n Cl 114 SC 114.2.4.5 Gilarranz, Alejandra Comment Type TR In figure 114-33, v(m) term SuggestedRemedy Remove minus sign at the Response	(m) = x(m) + v(m) <i>Response Status</i> C modified accordingly. <i>P</i> 61 KDPOF <i>Comment Status</i> A m is subtracted to x(m). It s the adder input of v(m) in figu	should be added i		attached file "perezaranda_G The suggested remedy correct solve the problem commented attached file "perezaranda_G <i>Cl</i> 114 SC 114.6.1 Gilarranz, Alejandra <i>Comment Type</i> TR <i>Co</i> Equation 114-2. Subtraction of $x(n) = SF(n)^* F_M(a(n)-SUM($. $= SF(n)^* (a(n)+2M^*m(n)-SU)$ <i>SuggestedRemedy</i> Replace equation by $x(n) = SF(n)^* F_M(a(n)+SUM($ $= SF(n)^* (a(n)+2M^*m(n)+S)$	EPOF_5_0715" cts the ambiguity. How d in #448 and it is rejea EPOF_5_0715" P92 KDPOF mment Status A operation is not correct)) JM()) ())	rever, the suggest cted in favor of te L7	ted remedy does not ext proposed in # 84
SuggestedRemedy Replace equation with u(n Response ACCEPT. Figure 114-33 has to be n Cl 114 SC 114.2.4.5 Gilarranz, Alejandra Comment Type TR In figure 114-33, v(m) tern SuggestedRemedy Remove minus sign at the Response ACCEPT.	(m) = x(m) + v(m) <i>Response Status</i> C modified accordingly. <i>P</i> 61 KDPOF <i>Comment Status</i> A m is subtracted to x(m). It s the adder input of v(m) in figu	should be added i		attached file "perezaranda_G The suggested remedy correct solve the problem commented attached file "perezaranda_G <i>Cl</i> 114 SC 114.6.1 Gilarranz, Alejandra <i>Comment Type</i> TR <i>Co</i> Equation 114-2. Subtraction of $x(n) = SF(n)^* F_M(a(n)-SUM($. $= SF(n)^* (a(n)+2M^*m(n)-SU)$ <i>SuggestedRemedy</i> Replace equation by $x(n) = SF(n)^* F_M(a(n)+SUM($ $= SF(n)^* (a(n)+2M^*m(n)+S)$	EPOF_5_0715" cts the ambiguity. How d in #448 and it is rejea EPOF_5_0715" P92 KDPOF omment Status A operation is not correct)) JM())	rever, the suggest cted in favor of te L7	ted remedy does not ext proposed in # 84

C/ 114 SC 114.2. 4 Fapia, Pablo	4.3 P49 KDPOF	L 42	# 85	<i>Cl</i> 114 <i>SC</i> 114.2.4. Tapia, Pablo	3.4 <i>P</i> 55 KDPOF	L 51	# 88
Comment Type E	Comment Status A			Comment Type E	Comment Status A		
Not clear enough. Re "After encapsulation symbols"	ewrite. of the GMII data stream and sc	rambling it is enc	oded into 16-PAM	Wrong alignment betv SuggestedRemedy	veen points 1 and 2. Seems the	hat there is an ex	tra space in "1)"
SuggestedRemedy							
"After being encapsu symbols."	ulated and scrambled, the GMII	data stream is er	ncoded into 16-PAM	Response ACCEPT.	Response Status C		
Response	Response Status C				6 D = 0	1.00	"
ACCEPT.				C/ 114 SC 114.2.4. Tapia, Pablo	4 P59 KDPOF	L 39	# 89
C/ 114 SC 114.2. 4 Fapia, Pablo	4.3 <i>P</i> 49 KDPOF	L 50	# 86	Comment Type E In "b0:3" use subscrip	Comment Status A t for "0:3"		
Comment Type E	Comment Status A			SuggestedRemedy			
	blies to "the bits", remove "s"						
"parity bits that provi	de powerful error correction"			Response	Response Status C		
If applies to code cha	ange order or rewrite sentence.			ACCEPT.			
SuggestedRemedy						1.04	# 00
				Cl 114 SC 114.3 Tapia, Pablo	Р 61 КDPOF	L 21	# 90
Response	Response Status C			•			
ACCEPT IN PRINCI	PLE.			Comment Type E	Comment Status A ne Physical Header Data (PHI) and the PHV (control state "
Simplify as:				SuggestedRemedy			
	evel are encoded with a (1976, on, whereas the second level is		that provides error	Response	Response Status C		
C/ 114 SC 114.2.4	4.3.3 <i>P</i> 53	L 36	# 87	ACCEPT IN PRINCIP	LE.		
Fapia, Pablo	KDPOF			See comment #219			
Comment Type E	Comment Status A			C/ 114 SC 114.3.2.	1.2 P66	L 9	# 91
In expression 114-6,	the kQ shall be rounded down,	but the rounded	up symbol is used.	Tapia, Pablo	KDPOF		
SuggestedRemedy				Comment Type E	Comment Status A		
suggesteurreineuy	down symbol.			Change "disconnected	d of" to "disconnected from".		
Change to rounding-	5			SuggestedRemedy			
	Response Status C						
Change to rounding-	Response Status C						
Change to rounding- Response	Response Status C			Response	Response Status C		

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

C/ 114 SC 114.3.2.1.		L 41	# 92	C/ 114 SC 114.3.2		L 23	# 95
apia, Pablo	KDPOF			Tapia, Pablo	KDPOF		
Comment Type E	Comment Status A			Comment Type E	Comment Status A		THF
Redundant "start": "with the start start of Tr	anomit Dlaska "			Two consecutive and		diata ha fully impl	amontod in the DLIV
	ansmit Biocks.			and does not require	is up to the implementer and coordination with"	a is to be fully impl	emented in the PHY
SuggestedRemedy "with the start of Transm	ait Dlaaka "			SuggestedRemedy			
				Better read as:			
Response ACCEPT.	Response Status C				n is up to the implementer and dination with the link partner.		emented in the PHY. It
C/ 114 SC 114.3.2.1.	5 P72	L 3	# 93	Response	Response Status C		
apia, Pablo	KDPOF	LJ	# 93	ACCEPT.			
Comment Type E	Comment Status A			C/ 114 SC 114.3.2	2.3 P76	L 43	# 96
"PHY transmitter are en	abled"			Tapia, Pablo	KDPOF		
uggestedRemedy				Comment Type E	Comment Status A		THF
"PHY transmitter is enal	bled"			Change:			
Response	Response Status C				D reception, it is the coefficie	nts requested by t	he link partner"
ACCEPT IN PRINCIPLE	Ξ.			SuggestedRemedy –			
See comment #422				To: "Variable set by a PH partner"	D reception, that contains the	e coefficients reque	ested by the link
C/ 114 SC 114.3.2.2	P 72	L 22	# 94	Response	Response Status C		
apia, Pablo	KDPOF			ACCEPT IN PRINCIF	, PLE.		
omment Type E	Comment Status R		THP				
Change: "For the estimation of th	e filters in charge to lineari	ze the channel,"			eived to subclause 114.3.2.2 anda_GEPOF_5_0715"	are addressed in t	text proposed in
SuggestedRemedy							
To: "For the estimation of th	e filters in charge of chann	el linearization,"					
Response	Response Status C						
REJECT.							
In favor of remedy sugg	ested in comment #270						

C/ 114 SC 114.3.2.2. Fapia, Pablo	3 P77 KDPOF	L 1	# 97	C/ 114 SC 114.4.1 Tapia, Pablo	<i>Р</i> 80 КDPOF	L 32	# 100
Comment Type E Change: "requested of"	Comment Status A		THP	Comment Type E Change: "All transmitted PHDs i	Comment Status R		OAI
SuggestedRemedy To: "requested by"				SuggestedRemedy To: "All transmitted PHDs i	nclude"		
	ved to subclause 114.3.2.2 a	re addressed in t	ext proposed in	Response REJECT. Implementation of this See comment #305	Response Status C comment does not apply if re	emedy of comme	nt #305 is accepted.
attached file "perezaran	P80	L 22	# 98	C/ 114 SC 114.4.2 Tapia, Pablo	Р 80 КDPOF	L 41	# 101
apia, Pablo Comment Type E	KDPOF Comment Status R		OAM	Comment Type E	Comment Status R		OA
Change: "OAM message"	Comment Status R		OAM	The end of the sentence SuggestedRemedy	e "to store a received" seem	is incomplete. Re	eview and rewrite.
uggestedRemedy				Response	Despense Status		
To: "OAM messages" <i>Response</i>	Response Status C			REJECT.	Response Status C	emedy of comme	nt #305 is accepted.
"OAM messages" <i>lesponse</i> REJECT.	<i>Response Status</i> C comment does not apply if re	medy of commer	nt #305 is accepted.	REJECT. Implementation of this	comment does not apply if re	emedy of commen	nt #305 is accepted. # 102
"OAM messages" esponse REJECT. Implementation of this of See comment #305		medy of commer	nt #305 is accepted. # <u>99</u>	REJECT. Implementation of this See comment #305	comment does not apply if re		
"OAM messages" esponse REJECT. Implementation of this of See comment #305	comment does not apply if re	-		REJECT. Implementation of this See comment #305 Cl 114 SC 114.4.2.1 Tapia, Pablo Comment Type E Rewrite:	comment does not apply if re P80 KDPOF <i>Comment Status</i> R Iser data bits of the OAM me	L52	# <u>102</u> 0A
"OAM messages" esponse REJECT. Implementation of this of See comment #305 114 SC 114.4.1 apia, Pablo comment Type E Change:	comment does not apply if re P80 KDPOF	-	# 99	REJECT. Implementation of this See comment #305 Cl 114 SC 114.4.2.1 Tapia, Pablo Comment Type E Rewrite: "Step2: Write the 128 u through OAM_DATA8 f SuggestedRemedy To: "Step2: Write the 128 u	comment does not apply if re P80 KDPOF <i>Comment Status</i> R Iser data bits of the OAM me	L 52	# [<u>102</u> OA

I YPE: 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 Z/withdrawn SORT ORDER: Comment ID

Cl 114 SC Tapia, Pablo	114.4.4.1	Р 82 КDPOF	L 50	# 103		<i>Cl</i> 114 Tapia, Pab		114.4.4.2	<i>Р</i> 85 КDPOF	L 29	# 106	
Comment Type Typing error ir	E n "commun	Comment Status R icat3.503.50ion link"			OAM	Comment T "the re		E PHD are a	Comment Status R			OAM
SuggestedRemed "communication	-					Suggested. "the re		<i>ly</i> PHD are st	ored"			
Response REJECT. Implementatic See comment		Response Status C	nedy of commer	nt #305 is accepted	d.	Response REJEC Implem See co	nentatio		Response Status C	nedy of comme	nt #305 is accepted	d.
Cl 114 SC Tapia, Pablo	114.4.4.1	<i>Р</i> 83 КDPOF	L10	# 104		C/ 114 Tapia, Pab		114.4.4.2	<i>P</i> 85 KDPOF	L 30	# 107	
Comment Type Change: "are transmitte SuggestedRemed		Comment Status R			OAM	Comment Redun Redun Suggested	dant "is	E also valid" /y	Comment Status R . Remove.			OAM
To: "to be transmi <i>Response</i> REJECT.	itted"	<i>Response Status</i> C omment does not apply if rei	nedy of commer	nt #305 is accepted	d.	Response REJEC Implem See co	nentatio		Response Status C	medy of comme	nt #305 is accepted	d.
See comment	t #305		-	# 105		<i>Cl</i> 114 Tapia, Pab		114.4.4.2	<i>Р</i> 85 КDPOF	L 41	# 108	
Cl 114 SC Tapia, Pablo	114.4.4.2	<i>Р</i> 85 КDPOF	L 24	# 105		Comment	Туре	Е	Comment Status R			OAM
Comment Type	E	Comment Status R			OAM			entence: at this is th	e last"			
Redundant "b "of the bit TX0		_ bit MSGT"				Suggested	Remea	ly				
SuggestedRemed Change to:	-					Comple "so it of the p	is critic		MDATA8 is the last read da	ta in order to en	sure correct behav	ior
"of the TXOAI Response						Response			Response Status C			
REJECT.		Response Status C	medy of commer	nt #305 is accepted	d.	REJEC Implem See co	nentatio		omment does not apply if re	medy of comme	nt #305 is accepted	d.

Cl 114 SC 114.4.4 .2 Tapia, Pablo	2 <i>P</i> 85 KDPOF	L 43	# 109	<i>Cl</i> 114 <i>SC</i> 114.4.4 <i>.</i> Tapia, Pablo	2 <i>P</i> 85 KDPOF	L 40	# 112
Comment Type E "(read_RxTBD8_event	Comment Status R t = TRUE)"		OAM	Comment Type E Change:	Comment Status R		OAM
SuggestedRemedy "(read_RXOAM_DATA	A8_event = TRUE)"			"(read_OAMDATA8_e SuggestedRemedy	vent=TROE)		
Response	Response Status C			To: "(read_RXOAM_DATA	\8_event=TRUE)"		
REJECT. Implementation of this See comment #305	comment does not apply if re	medy of comme	nt #305 is accepted.	Response REJECT. Implementation of this	Response Status C comment does not apply if re	emedy of commer	nt #305 is accepted.
C/ 114 SC 114.4.4.2		L 1	# 110	See comment #305		,, ,	
Tapia, Pablo Comment Type E	KDPOF Comment Status R		OAM	C/ 114 SC 114.5 Tapia, Pablo	<i>Р</i> 87 КDPOF	L 27	# 113
Change: "The local PHY then a	gain waits for a new"			Comment Type E	Comment Status A		
SuggestedRemedy To: Then, the local PHY w	aits again for a new"			"indicates to link partn <i>SuggestedRemedy</i> "indicates to the link p			
Response REJECT.	Response Status C	modulofoommo	at #205 is accorded	Response ACCEPT.	Response Status C		
See comment #305	comment does not apply if re	medy of commen	it #305 is accepted.	C/ 114 SC 114.5.1	P 90	L 4	# 114
C/ 114 SC 114.4.4.2		L 39	# 111	Tapia, Pablo Comment Type E	KDPOF Comment Status A		
Tapia, Pablo Comment Type E	KDPOF Comment Status R		OAM	••	transmitter is to generate, or	not, signal at the	MDI."
Change: "This bits indicates"			UAIVI	SuggestedRemedy "Indicates to the PMD	transmitter to generate, or no	ot, signal at the M	DI."
SuggestedRemedy To: "This bit indicates"				Response ACCEPT.	Response Status C		
Response REJECT. Implementation of this	Response Status C comment does not apply if re	medy of commer	nt #305 is accepted.				

See comment #305

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 Z/withdrawn SORT ORDER: Comment ID

C/ 114 SC 114.8.1 Tapia, Pablo	Р 93 КDPOF	L 44	# 115	Cl 45 SC 45.2.3.48 P 24 L 1 Tapia, Pablo KDPOF	# 119
Comment Type E "In response a change"	Comment Status A			Comment Type E Comment Status A Change: "to provide a OAM channel"	OAM
SuggestedRemedy "In response to a change	9"			SuggestedRemedy	
Response ACCEPT.	Response Status C			To: "to provide an OAM channel" Response Response Status C	
C/ 114 SC 114.9	P 94	L 43	# 116	ACCEPT.	
Tapia, Pablo Comment Type E	KDPOF Comment Status R			Cl 45 SC 45.2.3.48.6 P 25 L 21 Tapia, Pablo KDPOF	# 120
"also demands that there	e be an upper bound"			Comment Type E Comment Status A	OAM
SuggestedRemedy "also demands an upper	bound"			Change "and are stored"	
Response REJECT.	Response Status C			SuggestedRemedy To: "are stored"	
C/ 114 SC 114.8.5 Tapia, Pablo	Р 94 КDPOF	L 38	# 117	Response Response Status C ACCEPT IN PRINCIPLE.	antad
Comment Type E Remove: "Ruben comme	Comment Status A			This is corrected with suggested remedy of comment #306, if acce	
SuggestedRemedy				C/ 45 SC 45.2.3.48.6 P 25 L 21 Tapia, Pablo KDPOF	# 121
Response ACCEPT.	Response Status C			Comment Type E Comment Status A Review PHD.OAM.DATA0 assignment to TXOAM_DATA1 and its This might be right or wrong depending on the naming scheme ch registers.	
Cl 114 SC 114.2.2.2 Tapia, Pablo	<i>Р41</i> КDPOF	L 4	# 118	SuggestedRemedy	
Comment Type E Confusing multiplier and SuggestedRemedy	Comment Status A adder in the right edge of F	igure 114-8.		Response Response Status C ACCEPT IN PRINCIPLE. This is corrected with suggested remedy of comment #306, if acce	epted
	Booponoo Statua				
Response ACCEPT. See comment #320	Response Status C				
TYPE: TR/technical required	ER/editorial required GR/	general required	T/technical E/editorial G	eneral Comment ID 121	Page 21 of 100

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

<i>Cl</i> 45 SC 45.2.3.48 Tapia, Pablo	8.6 <i>P</i> 25 KDPOF	L 29	# 122	Cl 45 SC 45.2.3.49 Tapia, Pablo	2 P27 KDPOF	L 48	# 125	
	Comment Status A 500.15 has been already use	d for TXREQ.	OAM	Comment Type E Confusing sentence: "When line loopback	Comment Status A	amas and/or rewrite		C45
SuggestedRemedy Change to 3.510.15				SuggestedRemedy				
Response ACCEPT IN PRINCIPL This is corrected with s	Response Status C E. suggested remedy of commen	t #306, if accepte	ed	Response ACCEPT IN PRINCIPL See comment #249	Response Status C E.			
Cl 45 SC 45.2.3.48 Tapia, Pablo Comment Type E	6.6 P25 KDPOF Comment Status A	L 43	# 123 OAM	Cl 45 SC 45.2.3.51 Tapia, Pablo	1 <i>P</i> 31 KDPOF	L38	# 126	
	register is missing in Table 45 ne chosen, as suggested in p <i>Response Status</i> C			Comment Type E Change: "log2(100.35)" SuggestedRemedy To: "log2(10^0.35)"	Comment Status A			C45
ACCEPT IN PRINCIPL This is corrected with s	E. suggested remedy of commen	t #306, if accepte	ed	Response ACCEPT IN PRINCIPL	Response Status C E.			
C/ 45 SC 45.2.3.49 Tapia, Pablo	р Р 27 КDPOF	L 1	# 124	See comment #407	P32	L 26	# 127	
Comment Type E	Comment Status A		C45	Tapia, Pablo	KDPOF	-20	" 121	
Remove "!" at the end of Also found at (page,line (29,1) (31,21) (32,1) (32,19)				Comment Type E Remove TBD from Pcs SuggestedRemedy	Comment Status A TBD3.14:0 and assign propp	per value.		C45
SuggestedRemedy				Response ACCEPT.	Response Status C			
Response ACCEPT.	Response Status C			See comment #373				

<i>Cl</i> 114 SC 114.1 Tapia, Pablo	.4 P36 KDPOF	L 45	# 128	<i>Cl</i> 114 SC 114.2. Tapia, Pablo	2.1 <i>P</i> 40 KDPOF	L 24	# 129	
Comment Type E In figure 114-2 the receivers are conne	Comment Status A fibres connect the two transmitter ected together.	s together. Analo	ogously, the two	Comment Type E The letter "I" in the C "1".	Comment Status A C code describing the MLS gene	erator might be co	nfused with number	
SuggestedRemedy				SuggestedRemedy				
Connect the transn	nitter on one side to the receiver o	on the other and	viceversa.	Change the name of	f variable "I". Use "len" for exam	nple.		
Response ACCEPT.	Response Response Status C		Response ACCEPT IN PRINC	Response Status C PLE.				
				to include initialization of sift re es, etc. The C code should be				
				C code: void lfsr (int *prbsou	t, int len, int seed)			
				{ int i, j, fb, r[25];				
				for (j = 0; j <= 24; j- r[j] = (seed >> (24				
				for (i = 0; i < len; i++) { prbsout[i] = r[0]; fb = (r[21] ^ r[24]) & 1;				
				for (j = 24; j > 0; j) r[j] = r[j-1];				
				r[0] = fb; } }				
				Modify description te	ext accordingly.			

Comment ID 129

C/ 114 SC 114.2.3.1 Tapia, Pablo	<i>Р</i> 41 КDPOF	L 54	# 130	CI 45 SC 45.2.3.48 P24 L32 # 133 Tapia, Pablo KDPOF
Comment Type ER Text between page 41 li	Comment Status A ne 54 to page 42 line 4 is re	dundant and sha	II be rewritten.	Comment Type ER Comment Status A OAM One TXOAM_DATA register is missing in Table 45-120 (either 0 or 8, depending on the naming scheme chosen, as suggested in previous comment). OAM OAM
SuggestedRemedy				SuggestedRemedy
Response ACCEPT IN PRINCIPLE See comment #191	Response Status C			Response Response Status C ACCEPT IN PRINCIPLE. This is corrected with suggested remedy of comment #306, if accepted
<i>Cl</i> 114 <i>SC</i> 114.3 Tapia, Pablo	Р 82 КDPOF	L1	# 131	CI 45 SC 45.2.3.48.7 P 26 L 1 # 134 Tapia, Pablo KDPOF KDPOF OAM Comment Type ER Comment Status A OAM
Comment Type ER Some fields in Table 114 SuggestedRemedy	Comment Status A 4-3 are repeated. The conta	ned information	OAN is inconsistent.	Is this section describing a single register or several registers? The description seems to be describing the whole 3.510 register, but it is confusing. Moreover, there is no equivalent description for register 3.500 (the fields are described individually). Review.
Review table contents.				SuggestedRemedy
Response ACCEPT IN PRINCIPLE See comment #68	Response Status C			Response Response Status C ACCEPT IN PRINCIPLE. This is corrected with suggested remedy of comment #306, if accepted
Cl 114 SC 114.4.4.2 Tapia, Pablo	<i>Р</i> 85 КDPOF	L 24	# 132	This is confected with suggested remedy of comment #300, if accepted
Comment Type ER Shouldn't it be RXOAM_	Comment Status R _CTRL instead of TXOAM_C	TRL?	OAN	
SuggestedRemedy				
Response REJECT. Implementation of this cr See comment #305	<i>Response Status</i> C omment does not apply if re	medy of commer	nt #305 is accepted.	

C/ 114 SC 114.2.4.1.1 P44 L 36 # 135 Tapia, Pablo KDPOF K	C/ 114 SC 114.3.3 P79 L13 # [137] Tapia, Pablo KDPOF	
Comment Type T Comment Status A The type control bit is not really added to the 80 bit GMII chunk, it might be confusing.	Comment Type T Comment Status A Aren't 114.3.3 and 114.3.5 redundant?	
SuggestedRemedy	SuggestedRemedy	
Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT IN PRINCIPLE. See comment #343	
Rephrasing first sentence to avoid confusion 80+1 = 65, and eliminate justification that is not relevant at that point, because 64B/65B encoding is described later.	Cl 45 SC 45.2.3.48 P24 L 10 # 138 Tapia, Pablo KDPOF	
"In the transmit direction, eight consecutive 10-bit samples of GMII signals (a GMII chunk)	Comment Type T Comment Status A	OAM
are compressed to eight octets, which are prepended by a control bit (Type) to create the 65-bit Physical Data Block (PDB). TXD <7:0>, TX_EN and TX_ER, compose each GMII transmit path complete Two different types of PDPs, DDP DATA and PDP, CTDL, are	OAM register naming is not coherent: TXOAM vs RX_OAM	
transmit path sample. Two different types of PDBs, PDB.DATA and PDB.CTRL, are generated by the 64B/65B encoding block."	SuggestedRemedy	
Cl 114 SC 114.3.2.1.2 P69 L 29 # 136 Tapia, Pablo KDPOF KDPOF Image: Comment Type T Comment Status R Are rem_rcvr_hdr_lock and loc_rcvr_hdr_lock updated before or after rcvr_hdr_lock upon the reception of a new PHD block. Does it matter? Clarify. SuggestedRemedy	For example choose: TX_OAM* RX_OAM* TX_REQ RX_VAL TX_MSGT RX_MSGT To avoid confusion PHYT and MERT may keep their actual name.	
Response Response Status C	Response Response Status C	
REJECT.	ACCEPT IN PRINCIPLE. This is corrected with suggested remedy of comment #306, if accepted	
loc_rcvr_hdr_loc is updated according to state diagram of Figure 114-37 and rem_rcvr_hdr_loc is updated according to state diagram of Figure 114-38.	Cl 45 SC 45.2.3.48.8 P26 L7 # 139 Tapia, Pablo KDPOF	
Finally state diagram of Figure 114-39 controls the update of rcvr_hdr_lock as a function of loc_rcvr_hdr_lock and rem_rcvr_hdr_lock.	Comment Type T Comment Status A	OAM
The 3 state diagrams are evaluated once per received PHD, as indicated.	Wrong register address. Also found in lines 13, 17, 21 and 25.	
	SuggestedRemedy	
	Change to 3.510.X	
	Response Response Status C ACCEPT IN PRINCIPLE. This is corrected with suggested remedy of comment #306, if accepted	
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g	general Comment ID 139 Page 25 of	

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

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Cl 45 SC 45.2.3.5.14 Tapia, Pablo	40 <i>P</i> 31 KDPOF	L 17	# 140		<i>Cl</i> 114 SC 114.2.4.3 Tapia, Pablo	3 <i>P</i> 52 KDPOF	L 32	# 143
Comment Type T OAM ability description r	Comment Status A missing.			C45	Comment Type TR NMLCC/2 shall be 494	Comment Status A symbols.		
SuggestedRemedy					SuggestedRemedy			
Response ACCEPT IN PRINCIPLE See comment #406	Response Status C				Response ACCEPT IN PRINCIPL	Response Status C E.		
Cl 45 SC 45.2.3.50.1 Tapia, Pablo	15 <i>P</i> 31 KDPOF	L19	# 141		"is mapped into NMLCO 988 is wrong.	C/2 = 494 two-dimensional s	symbols"	
Comment Type T EEE ability description n	Comment Status A nissing.			C45	<i>Cl</i> 114 SC 114.4.4.1 Tapia, Pablo	Р 84 КDPOF	L 30	# 144
SuggestedRemedy					Comment Type TR txr_oamudat shall also	Comment Status R contain TXOAM_HDR.		OAM
Response ACCEPT IN PRINCIPLE See comment #406	Response Status C				SuggestedRemedy			
<i>Cl</i> 114 SC 114.2.4.1 .1 Tapia, Pablo	KDPOF	L1	# 142		Response REJECT. Implementation of this of See comment #305	Response Status C	emedy of comme	nt #305 is accepted.
Comment Type TR Expression 114-3 is inco	Comment Status R omplete if the value for delta	(0) is not specifie	ed.		C/ 114 SC 114.4.4.2 Tapia, Pablo	Р 86 КDPOF	L 49	# 145
	and to clarify, add also that n the first transmit block PH		e offset of the secc	nd	<i>Comment Type</i> TR rxr_oamudat shall also	Comment Status R		OAM
Response REJECT.	Response Status C				SuggestedRemedy			
of receiver to synchroniz encoding (offset of first F		s correct informa	tion about PCS	·	Response REJECT. Implementation of this of See comment #305	Response Status C	emedy of comme	nt #305 is accepted.
	FSET field extends 7 bits, the that are valid according to a		ng any value of res	set				

Cl 45 SC Tapia, Pablo		<i>P</i> KDPOF	L	# 146		C/ 45 SC 45.2.3. 4 Tapia, Pablo	18.2 P25 KDPOF	L 1	# 149
<i>Comment Type</i> In some parts	of the draft the C	nment Status A DAM data registers ar 4. Choose a naming			ОАМ 1-	Comment Type TR	Comment Status A 500.12 in Table 45-120 and	in 3.500.14 in text.	OAM
SuggestedRemedy Response ACCEPT IN P	Resp RINCIPLE.	onse Status C					suggested remedy of comme	•	
		d remedy of comme	•			Cl 45 SC 45.2.3. 4 Tapia, Pablo	8.12 P26 KDPOF	L 25	# 150
Cl 45 SC 4 Tapia, Pablo	45.2.3.48.3	<i>Р25 КDPOF</i>	L 8	# 147		Comment Type TR	Comment Status A		OAM
Comment Type The PHYT bit i shall be rewritt SuggestedRemedy Change definit	is the MSGT of the ten.	nment Status A	eived by the remo	te PHY. This defin	OAM iition	the naming scheme s review register addre SuggestedRemedy			
	t is the MSGT of <i>Resp</i>	the last message rec onse Status C	eived by the rem	ote PHY."		Response ACCEPT IN PRINCIF This is corrected with	Response Status C PLE. suggested remedy of commo	ent #306, if accept	ed
This is correct	ed with suggeste	d remedy of comme	-			C/ 114 SC 114.2.2	.1 <i>P</i> 40 KDPOF	L 32	# <u>151</u>
Cl 45 SC 4 Tapia, Pablo Comment Type	45.2.3.48.6 TR Con	P 25 KDPOF nment Status A	L18	# 148	ΟΑΜ	<i>Comment Type</i> E "}" is not aligned with	Comment Status A the rest of the code.		
51		ses do not match the	e values in Table	45-120.	0AM	SuggestedRemedy			
Response ACCEPT IN P	sses in both table <i>Resp</i> RINCIPLE.	e and text. onse Status C d remedy of commen	nt #306, if accept	ed		<i>Response</i> ACCEPT IN PRINCIF See comment #129	Response Status C PLE.		

C/ 45 SC 45.2.3.48 Tapia, Pablo	.3 <i>P</i> 25 KDPOF	L 6	# 152	C/ 114 SC 114.1.2 Tapia, Pablo	Р35 КDPOF	L 40	# 155
Comment Type TR MSGT is located in 3.5	Comment Status A 00.14 in Table 45-120 and in	3.500.13 in text.	OAM	Comment Type E Choose between "The	Comment Status A relationship is shown" or "T	The relationships	are shown"
SuggestedRemedy				<i>SuggestedRemedy</i> The relationship is s	hown"		
Response ACCEPT IN PRINCIPL This is corrected with s	Response Status C E. uggested remedy of commen	t #306, if accepte	d	Response ACCEPT.	Response Status C		
C/ 45 SC 45.2.3.48 Tapia, Pablo	.4 <i>P</i> 25 KDPOF	L10	# 153	<i>Cl</i> 114 <i>SC</i> 114.1.4 Tapia, Pablo	Р 36 КDPOF	L 53	# 156
Comment Type TR	Comment Status A 00.13 in Table 45-120 and in	3.500.12 in text.	OAM	Comment Type E Consider revising the s "may contain portions	Comment Status A sentence: or all of zero, one or more fra	mes"	
SuggestedRemedy				SuggestedRemedy			
Response ACCEPT IN PRINCIPL This is corrected with s	Response Status C E. uggested remedy of commen	t #306, if accepte	d		<i>Response Status</i> C .E. duce confusion and it lacks c	of meaning without	ut reading the clause
2/ 114 SC 114.1.1 Tapia, Pablo	<i>Р</i> 35 КDPOF	L 32	# 154	114.2. Replace with:	s do not have correlation with		
<i>comment Type</i> E co-efficients	Comment Status A			Givin frame boundane			ock boundaries
SuggestedRemedy coefficients							
Response	Response Status C						

C/ 114 SC 114.2.2.2 P40 L42 # 157 Fapia, Pablo KDPOF	C/ 114 SC 114.2.3.2 P42 L24 # 159 Tapia, Pablo KDPOF
Comment Type E Comment Status A	Comment Type E Comment Status A
To clarify, change: "An S2 pilot sub-block is transmitted between every other data block, alternating with Physical Header Sub-frame sub-blocks as shown in Figure 114–4."	S0 is referring to shift register LSB. Shift register bits are described as r[x] in the formal code definition in 114.2.2.1. Figure 114-11 does not contain any particular naming for each of the bits of the LFSR.
SuggestedRemedy	SuggestedRemedy
To: "An S2 pilot sub-block is transmitted before every even data sub-block, starting in sub-	Change "value of register element S0" to "value of register element r[0]" and consider modifying figures 114-7 and 114-11 to include the "r[x]" naming.
block 2, as shown in Figure 114–4."	Response Response Status C
Response Response Status C	ACCEPT IN PRINCIPLE.
ACCEPT IN PRINCIPLE. See comment #318	Include r[x] naming in 114-7, 114-11 and 114-18. To not include all the register bits in figure is necessary.
By replacing "data block" with "payload data sub-block" the description is clear enough. Figure 114-2 provides the transmission order of the different parts composing the Transmit Block.	C/ 114 SC 114.2.3.3 P42 L45 # 160 Tapia, Pablo KDPOF KDPOF
E/ 114 SC 114.2.2.2 P41 L 2 # 158 apia, Pablo KDPOF KDPOF Comment Type E Comment Status A	Comment Type E Comment Status A "zero bits (bits with value zero)" Even with the clarification in parenthesis, the expression "zero bits" is confusing. Additionally, I would keep using "information" instead of "data" as in the previous sentence
Change: "a pseudo-random sequence of length 13312,"	Change:
SuggestedRemedy	"Shortening is implemented by prefixing zero bits (bits with value zero) to the data bits. In this case 1151 zero bits are prefixed to the 720 data bits."
To: "a pseudo-random sequence of length 13312 bits,"	SuggestedRemedy
Response Response Status C ACCEPT IN PRINCIPLE.	To: "Shortening is implemented by prefixing a sequence of 1151 bits with value zero to the information bits."
See comment #319	Response Response Status C
(add thousands separator)	ACCEPT IN PRINCIPLE.
	"Shortening is implemented by prefixing a sequence of 1151 bits with value zero to the 720 information bits."

Comment Type E Comment Status A A parenthesis is insing in equation 114-1. SuggestedRemedy g(i) Gitspanse Response Status C ACCEPT. Change: "The Comment Status R Change: "The counter always starts at 0 for each new PHS modulation." SuggestedRemedy To: "The 1-bit free counter shall be initialized to 0. Since the counter waps around at value 1 and the PHS contains an even number of symbols, the counter always starts at 0 for each new PHS modulation." SuggestedRemedy To: To: The counter shall be initialized to 0. Since the counter waps around at value 1 and the PHS containes an even number of symbols, the counter always starts at 0 for each new PHS modulation." Response Response Status C Response Response Status C Response Response Status C Response Response Status C "To: "To: To: "The counter shall be initialized to 0. Since the counter waps around at value 1 and the PHS contains an even number of symbols, the counter waps statts at 0 for each new PHS modulation." Comment Type E Comment Status A Comment Status A L2 for the coded 16-PAM'	X 114 SC 114.2.3.3 apia, Pablo	Р 42 КDPOF	L 51	# 161	<i>Cl</i> 114 Tapia, Pablo	SC 114	1.2.4	<i>Р43</i> КDPOF	L 52	# 163
g(i) Response Response Status C ACCEPT. C114. SC 114.2.3.4 P43 L27 # 162 rapia. Pablo KDPOF Comment Type E Comment Status R Change: "The 1-bit free counter is used to control the multiplexer initially reset with value 0. Since the counter always starts at 0 for each new PHS modulation." SuggestedRemedy To: "The 1-bit free counter shall be initialized to 0. Since the counter shall be initialized to 0. Since the counter always starts at 0 for each new PHS modulation." SuggestedRemedy To: "The 1-bit free counter shall be initialized to 0. Since the counter always starts at 0 for each new PHS modulation." Response Response Status C AcCEPT IN PRINCIPLE. SuggestedRemedy To: "The 1-bit free counter shall be initialized to 0. Since the counter always starts at 0 for each new PHS modulation." PHS modulation." Response Status C Response Constellation (see Clause 114.2.4.3)." Regionse Response Status C AcCEPT IN PRINCIPLE. Response Response Status C Change: "Of the coded 16-PAM" SuggestedRemedy To: "To: To: "The 1-bit free counter is nearenor of symbols, the counter always starts at 0 for each					•				:	
A THA SC 114_23.4 P43 L27 # [162] apia, Pablo KDPOF *** Support *** As shown in Figure 11413, the 705 600 bits per Transmit Block from 64B/65B encoder are scrambled and afterward encoded and mapped by a Multilevel Coset Code onto 16- Change: *** The 1-bit free counter is used to control the multiplexer initially reset with value 0. Since the counter is reset for each pair of PAM symbols and PHS contains an even number of symbols, then the counter always starts at 0 for each new PHS modulation." *** Response Status C SuggestedRemedy To: *** *** The 1-bit free counter shall be initialized to 0. Since the counter always starts at 0 for each new PHS modulation." *** Status *** **** **** **** **** **** ***** ***** ******* ************************************	g(i) Response	Response Status C			are scra	nbled ar	nd enco	ded by a Multilevel Cose		
Change: The 1-bit free counter is used to control the multiplexer initially reset with value 0. Since the counter is reset for each pair of PAM symbols and PHS contains an even number of symbols, then the counter always starts at 0 for each new PHS modulation." UggestedRemedy To: "The 1-bit free counter shall be initialized to 0. Since the counter wraps around at value 1 and the PHS contains an even number of symbols, the counter always starts at 0 for each new PHS modulation." Tesponse Response Status C REJECT. Rejected in favor of #298. Rejected in favor of #298. Rejected in favor of #298. Response Status C Response Status C ACCEPT IN PRINCIPLE. Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. Actually, It is referring to an scheme or an encoder, but not symbols. Suggested: "Each of the 28 payload data sub-blocks is composed of 8 codewords generated by the	apia, Pablo	KDPOF	L 27	# [162	"As show are scra	/n in Fig nbled ar	nd after	ward encoded and mapp		
uggestedRemedy To: "The 1-bit free counter shall be initialized to 0. Since the counter wraps around at value 1 and the PHS contains an even number of symbols, the counter always starts at 0 for each new PHS modulation." Useponse Response Status C REJECT. Rejected in favor of #298.	Change: "The 1-bit free counter is the counter is reset for ea	ach pair of PAM symbols ar	nd PHS contains	an even number of	ACCEPT "As show encoding	vn in Fig Jare scr	ure 114 ambled		rward error correcti	on by an MLCC that
To: "The 1-bit free counter shall be initialized to 0. Since the counter wraps around at value 1 and the PHS contains an even number of symbols, the counter always starts at 0 for each new PHS modulation." esponse Response Status C REJECT. Rejected in favor of #298. Comment Type E Comment Status A Change: "of the coded 16-PAM" SuggestedRemedy To: "of the coded 16-PAM symbols" Response Response Status C ACCEPT IN PRINCIPLE. Actually, It is referring to an scheme or an encoder, but not symbols. Suggested: "Each of the 28 payload data sub-blocks is composed of 8 codewords generated by the						SC 114	1.2.4		L 5	# 164
esponse Response Status C To: REJECT. Rejected in favor of #298. Rejected in favor of #298. Rejected in favor of #298. Response Response Status C ACCEPT IN PRINCIPLE. Actually, It is referring to an scheme or an encoder, but not symbols. Suggested: "Each of the 28 payload data sub-blocks is composed of 8 codewords generated by the	To: "The 1-bit free counter sh and the PHS contains an				Change: "of the c	oded 16-		Comment Status A		
Rejected in favor of #298. ACCEPT IN PRINCIPLE. Actually, It is referring to an scheme or an encoder, but not symbols. Suggested: "Each of the 28 payload data sub-blocks is composed of 8 codewords generated by the	•	Response Status C			To:	-	PAM s	ymbols"		
Suggested: "Each of the 28 payload data sub-blocks is composed of 8 codewords generated by the		3.			,	IN PRI	NCIPLE	•		
"Each of the 28 payload data sub-blocks is composed of 8 codewords generated by the					Actually,	It is refe	erring to	an scheme or an encod	er, but not symbols	
					"Each of	the 28 p			oosed of 8 codeword	ds generated by the

C/ 114 SC 114.2.4	P44	L 6	# 165	C/ 114 SC 114.3.2.1.5		L 22	# 168
Tapia, Pablo	KDPOF			Sánchez de La Lama, Carlos			
Comment Type E "postfixd"	Comment Status A			Comment Type E There seems to be stale	Comment Status A text at the end of line 23.	Surely there is a	stale closing bracket.
SuggestedRemedy "postfixed"				SuggestedRemedy Change definition in lines Variable set by the recep PHY (114.3.1, REMPHD	tion of a PHD indicating P	HD reception of th	he remote (link partner)
Response ACCEPT.	Response Status C			Response ACCEPT IN PRINCIPLE	Response Status C		
C/ 114 SC 114.2.4.3 Sánchez de La Lama, Carlo		L 30	# 166	Solved with remedy of co			
Comment Type E	Comment Status A			C/ 114 SC 114.3.2.2.2	P 75	L 4	# 169
	lue of free counter controlling	the demultiplexe	r. Also left unsaid is	Sánchez de La Lama, Carlos	KDPOF		
when it should be reset	ί.			Comment Type T	Comment Status R		T
"The reset state of the	aragraph ending on line 30: counter should be zero. Since arts at zero for each new cod			In figure 114-41, UCT tra seem to be needed; non in THPREQ_UPDATE.	nsition from THPREQ_UP e of the inputs variables of	DATE to THPRE	Q_REQUEST does no JEST change in
-		eword entering ti	le mapper.	SuggestedRemedy			
Response ACCEPT IN PRINCIPL Only indicate the reset	state of the counter. Rest of t	the sentence to e	liminate.	from THPREQ_REQUES to THPREQ_STORE with Resulting state diagram	REQ_UPDATE to THPRE T to THPREQ_STORE; and condition (new_thp_coef s equivalent and simpler; to ady state is THPREQ_UPD	dd a transition fro _event = TRUE). text description do	m THPREQ_UPDATE
"The reset state of the							
	C DE0	1 4 2	# 167	Response	Response Status C		
C/ 114 SC 114.2.4.3		L13	# 167	Response REJECT.	Response Status C		
C/ 114 SC 114.2.4.3 Sánchez de La Lama, Carlo Comment Type E Formula (114-14) has r	os KDPOF Comment Status A mod function arguments reve	ersed.	# [167	REJECT.	, ed to subclause 114.3.2.2 a	are addressed in	text proposed in
Cl 114 SC 114.2.4.3 Sánchez de La Lama, Carlo Comment Type E Formula (114-14) has r Same problem appears	os KDPOF Comment Status A	ersed.	# [167	REJECT. All the comments receive attached file "perezaranc	d to subclause 114.3.2.2 a a_GEPOF_5_0715" guous, because the 2 tran		
Cl 114 SC 114.2.4.3 Sánchez de La Lama, Carlo Comment Type E Formula (114-14) has r Same problem appears SuggestedRemedy	os KDPOF <i>Comment Status</i> A mod function arguments revei s in formula (114-15) in page tions to: mod(y, x) = y - x * flo	ersed. 59, line 46.	# [167	REJECT. All the comments receive attached file "perezarand The state diagram is ami occur simultaneosly; the The suggested remedy o	d to subclause 114.3.2.2 a a_GEPOF_5_0715" guous, because the 2 tran	sitions from THPI	REQ_REQUEST can
Cl 114 SC 114.2.4.3 Sánchez de La Lama, Carlo Comment Type E Formula (114-14) has r Same problem appears SuggestedRemedy	os KDPOF <i>Comment Status</i> A mod function arguments revei s in formula (114-15) in page tions to: mod(y, x) = y - x * flo <i>Response Status</i> C	ersed. 59, line 46.	# <u>167</u>	REJECT. All the comments receive attached file "perezarand The state diagram is ami occur simultaneosly; they The suggested remedy of thp_pending.	d to subclause 114.3.2.2 a a_GEPOF_5_0715" guous, because the 2 tran are not exclusive.	sitions from THPI permits to elimina	REQ_REQUEST can

Cl 114SC 114.3.2.2.3P77Sánchez de La Lama, CarlosKDPOF	L1	# 170	C/ 114 SC 114.3.2.1.5 Sánchez de La Lama, Carlos	Р 70 КDPOF	L 41	# 173
Comment Type E Comment Status A "requested of the link partner." Likely a typo.		THP	Comment Type E Text "synchronization with most likely a typo.	Comment Status A the start start of Transmit	Blocks." Word "	start" appears twice,
SuggestedRemedy			SuggestedRemedy			
Change text to "requested to the link partner."			Change text to: "synchroniz	zation with the start of Tra	nsmit Blocks."	
Response Response Status C ACCEPT IN PRINCIPLE.			• •	Response Status C		
All the comments received to subclause 114.3.2.2 a attached file "perezaranda_GEPOF_5_0715"	re addressed in t	ext proposed in	C/ 114 SC 114.2.4.1.1	P45	L 38	# 174
C/ 114 SC 114.3.5 P79	L 50	# 171	Sánchez de La Lama, Carlos	KDPOF		
Sánchez de La Lama, Carlos KDPOF				Comment Status A		
Comment Type E Comment Status A			Encoding of LEN is not con = 0 and LEN = 1 both indic			
No new information on this subclause. Same text as	s 114.3.3.		SuggestedRemedy			
SuggestedRemedy			Rephrase definition of LEN	field as follows:		
Remove subclause 114.3.5 Response Response Status C			"LEN<2:0> (CB<2:0>): This encoded as the number of same value for all CBs con	s field indicates the total n GCTRLs present in the G	MII minus one.	
Remove subclause 114.3.5			"LEN<2:0> (CB<2:0>): This encoded as the number of same value for all CBs con <i>Response</i>	s field indicates the total n GCTRLs present in the G	MII minus one.	
Remove subclause 114.3.5 Response Response Status ACCEPT IN PRINCIPLE. See comment #343 C/ 114 SC 114.4.4.1 P82	L 49	# 172	"LEN<2:0> (CB<2:0>): This encoded as the number of same value for all CBs con <i>Response</i> ACCEPT. <i>Cl</i> 115 SC 115.3.1	s field indicates the total n GCTRLs present in the G tained in the PDB.CTRL." Response Status C P106	MII minus one. ⁻	
Remove subclause 114.3.5 Response Response Status C ACCEPT IN PRINCIPLE. See comment #343 C/ 114 SC 114.4.4.1 P82 Sánchez de La Lama, Carlos KDPOF	L 49	# <u>172</u> OAM	"LEN<2:0> (CB<2:0>): This encoded as the number of same value for all CBs con <i>Response</i> ACCEPT. <i>Cl</i> 115 <i>SC</i> 115.3.1 Kobayashi, Shingeru	s field indicates the total n GCTRLs present in the G tained in the PDB.CTRL." Response Status C P106 TE Connectivi	MII minus one. ⁻	This field takes the
Remove subclause 114.3.5 Response Response Status C ACCEPT IN PRINCIPLE. See comment #343 C/ 114 SC 114.4.4.1 P82 Sánchez de La Lama, Carlos KDPOF			"LEN<2:0> (CB<2:0>): This encoded as the number of same value for all CBs con <i>Response</i> ACCEPT. <i>CI</i> 115 <i>SC</i> 115.3.1 Kobayashi, Shingeru <i>Comment Type</i> E	s field indicates the total n GCTRLs present in the G tained in the PDB.CTRL." Response Status C P106	MII minus one. ⁻	This field takes the
Remove subclause 114.3.5 Response Response Status C ACCEPT IN PRINCIPLE. See comment #343 C/ 114 SC 114.4.4.1 P82 Sánchez de La Lama, Carlos KDPOF Comment Type E Comment Status R Text "communicat3.503.50ion link" is most likely a type			"LEN<2:0> (CB<2:0>): This encoded as the number of same value for all CBs con <i>Response</i> ACCEPT. <i>Cl</i> 115 <i>SC</i> 115.3.1 Kobayashi, Shingeru	s field indicates the total n GCTRLs present in the G tained in the PDB.CTRL." Response Status C P106 TE Connectivi	MII minus one. ⁻	This field takes the
Remove subclause 114.3.5 Response Response Status C ACCEPT IN PRINCIPLE. See comment #343 C/ 114 SC 114.4.4.1 P82 Sánchez de La Lama, Carlos KDPOF Comment Type E Comment Status R Text "communicat3.503.50ion link" is most likely a type			"LEN<2:0> (CB<2:0>): This encoded as the number of same value for all CBs con <i>Response</i> ACCEPT. <i>CI</i> 115 <i>SC</i> 115.3.1 Kobayashi, Shingeru <i>Comment Type</i> E	s field indicates the total n GCTRLs present in the G tained in the PDB.CTRL." Response Status C P106 TE Connectivi	MII minus one. ⁻	This field takes the
Remove subclause 114.3.5 Response Response Status C ACCEPT IN PRINCIPLE. See comment #343 C C C/ 114 SC 114.4.4.1 P 82 Sánchez de La Lama, Carlos KDPOF Comment Type E Comment Status R Text "communicat3.503.50ion link" is most likely a ty SuggestedRemedy			 "LEN<2:0> (CB<2:0>): This encoded as the number of same value for all CBs con Response Response Recept. Cl 115 SC 115.3.1 Kobayashi, Shingeru Comment Type E O Double periods in the line. 	s field indicates the total n GCTRLs present in the G tained in the PDB.CTRL." Response Status C P106 TE Connectivi	MII minus one. ⁻	This field takes the

C/ 115 SC 115.3.5 P 108 L 26 # 176 Kobayashi, Shingeru TE Connectivity TE Connectivity 176	C/ 115 SC 115.4.2 P110 L 50 # 179 Kobayashi, Shingeru TE Connectivity TE Connectivity TE Connectivity TE Connectivity
Comment Type E Comment Status A Double periods in the line.	Comment Type E Comment Status R it is shown "1000BASE-H". Isn't it "1000BASE-RH"?
SuggestedRemedy Please remove one.	SuggestedRemedy Please check it and use right words.
Response Response Status C ACCEPT.	Response Response Status C REJECT. 1000BASE-H is correct since it refers to PCS and PMA sub-layers.
C/ 115 SC 115.4.1 P109 L40 # 177 Kobayashi, Shingeru TE Connectivity TE Connectivity 177	C/ 115 SC 115.5.9 P115 L2 # 180 Kobayashi, Shingeru TE Connectivity
Comment Type E Comment Status R t of "type" in table 115-3 is small letter in 115-3 regardless of stated "Type" in Table 115-1. Table 115-4 is also the same. 115-3 115-3	Comment Type E Comment Status A Double periods in the line.
SuggestedRemedy t of "type" in table 115-3 and others should be capital letter.	SuggestedRemedy Please remove one.
Response Response Status C REJECT. "type" is used because it is after comma.	Response Response Status C ACCEPT.
C/ 115 SC 115.4.1 P109 L 54 # 178 Kobayashi, Shingeru TE Connectivity	C/ 45 SC 45.2.3.48 P24 L1 # 181 Kobayashi, Shingeru TE Connectivity
Comment Type T Comment Status A	Comment Type E Comment Status A O. "a" in front of OAM is shown.
Center wavelength, max, is shown 670 nm in Table 115-3. But it might be changed to 665 nm or other because of the narrow wavelength window. Please refer to the file of "20th May - 802.3bv-AdHoc_memo.pdf"	SuggestedRemedy It might be "an".
SuggestedRemedy Please check it again and chose a right value.	Response Response Status C ACCEPT.
Response Response Status C ACCEPT.	
Change it to 665nm	

Cl 115 SC 115.3.2 P106 L33 # 182 Kobayashi, Shingeru TE Connectivity	C/ 45 SC 45.2.3.50.11 P 31 L 4 # [185] Mendo, Carmen KDPOF
Comment Type E Comment Status R Type B, C3 and C4 are explained as " no inline connection" But, in the explanations in "Objectives_GEPOF_2_0714.pdf" shows " no POF connections" SuggestedRemedy SuggestedRemedy It would be fine if it is used the same explanation in singular form or plural form. Response Response Status C REJECT. The the the time of the time is the time of the time is the time of the time is the time.	Comment Type E Comment Status R C45 Typo: " the PHY is receiving is in LPI Transmit Blocks". SuggestedRemedy Should be: " the PHY is receiving LPI Transmit Blocks". C Response Response Status C REJECT. See comment #370
Although in the objectives is used the term "POF connections", our hands are not tied to use it. "Inline connections" is more clear in the sense that MDI could be also considered a POF connection.	C/ 114 SC 114.1.1 P35 L33 # 186 Mendo, Carmen KDPOF Comment Type E Comment Status A
CI 115 SC 115.3.1 P105 L51 # 183 Kobayashi, Shingeru TE Connectivity Comment Type E Comment Status R In 1.5 Abbreviations, "plastic optical fiber" is defined as POF, however "plastic optical fiber" is still indicated in the line and others. SuggestedRemedy	Typo: "co-efficients". SuggestedRemedy Replace with "coefficients". Response Response Status C ACCEPT.
Please replace "plastic optical fiber" to "POF"	C/ 114 SC 114.2 P37 L49 # 187
Response Response Status C REJECT.	Mendo, Carmen KDPOF Comment Type E Comment Status
Cl 45 SC 45.2.3.50.5 P 30 L 23 # 184 Mendo, Carmen KDPOF KDPOF Comment Type E Comment Status A C45	Typo: "The transmitters performed by the PCS include". SuggestedRemedy Should be: "The transmit functions performed by the PCS include".
Comment Type Comment Status A C45 Typo: " variable rem_rcvr_hdr_lock aswhich reflects". SuggestedRemedy Typo: " variable rem_rcvr_hdr_lock which reflects". Response Response Status C ACCEPT IN PRINCIPLE. See comment #364	Response Response Status C REJECT. See comment #411

C/ 114 SC 114.2.2.1 P39 L37 # 188 C/ 114 SC 114.2.3.1 P42 L2 # 191 Mendo, Carmen **KDPOF** Mendo, Carmen **KDPOF** Comment Type E Comment Status A Comment Type E Comment Status A The reference to Figure 114-6 may be wrong? Typo: CRC computation description is repeated. SuggestedRemedy SuggestedRemedy If referring to the location of the S1 pilot in the Transmit Block should be probably Figure (Almost) identical description repeated: 1) p.40 l.53 to p.41 l.2 114-4. 2) p.41 l.2 to p.41 l.4 Response Response Status C Suggest to keep only version (2) which looks a bit more precise wrt the figure. ACCEPT. Response Response Status C ACCEPT. C/ 114 SC 114.2.2.2 P41 L12 # 189 Mendo, Carmen **KDPOF** C/ 114 SC 114.2.3.2 P**42** L21 # 192 Comment Type E Comment Status A Mendo, Carmen **KDPOF** Confusing notation: the minus sign of "-253" in the list of possible values is at the end of Comment Type E Comment Status A the line, separate from the value. Typo: ".. is generated by a LFSR ..". SuggestedRemedy SuggestedRemedy Do not separate the sign from the value. Also happens in subclause 114.2.4.3.6, p.58 I.20 ("rotation by -45 degrees"). Change to ".. is generated by an LFSR ..." to follow the usual pronunciation. Response Response Status C Response Response Status C ACCEPT. ACCEPT. C/ 114 SC 114.2.3.1 P41 L 50 # 190 C/ 114 SC 114.2.3.3 P**42** L51 # 193 Mendo, Carmen **KDPOF** Mendo, Carmen **KDPOF** Comment Type E Comment Status A Comment Type E Comment Status A Typo: ".. the check sum is computed ..". Typo: missing "(" in formula 114-1. SuggestedRemedy SuggestedRemedy Should better read ".. the checksum is computed ...". Should be: "g(i)" not "gi)". Response Response Status C Response Response Status C ACCEPT. ACCEPT.

C/ 114 SC 114.2.3.3	P43	L6	# 194	C/ 114 SC 114.2.4	.3 P49	L 42	# 197
Mendo, Carmen	KDPOF	20	# 194	Mendo, Carmen	KDPOF	L 42	# [197
Comment Type E Clarify the format of G(x)	Comment Status A			Comment Type E Typo: "After encpsula	Comment Status A tion".		
SuggestedRemedy Assuming that the LSB is the rightmost bit in the hex value, but should better be specified. Same comment for section 114.2.4.3.2, p.51, l.46. Response Response Status C				SuggestedRemedy Should be: "After encapsulation". Response Response Status C ACCEPT.			
ACCEPT. See comment #412	Response Status C			<i>Cl</i> 114 <i>SC</i> 114.2.4 Mendo, Carmen	3 <i>P</i> 49 KDPOF	L 50	# 198
C/ 114 SC 114.2.4 Mendo, Carmen Comment Type E	P 43 KDPOF Comment Status A	L 52	# 195	Comment Type E Comment Status A Expression: "The bits are protected with a (1976, 1668) BCH code by adding parity bits that provides powerful error correction".			
Typo: "The incoming data from the GMII is".				SuggestedRemedy			
SuggestedRemedy					y adding parity bits": "The bits es powerful error correction"		with a (1976, 1668)
Should be: "The incomin Response ACCEPT.	g data from the GMII are". Response Status C			Response ACCEPT IN PRINCIF See comment #86	Response Status C PLE.		
C/ 114 SC 114.2.4.1.1 Mendo, Carmen	I P47 KDPOF	L 5	# 196	<i>Cl</i> 114 <i>SC</i> 114.2.4 Mendo, Carmen	3.1 <i>P</i> 51 KDPOF	L 5	# 199
Comment Type E	Comment Status A			Comment Type E	Comment Status R		
Typo: In Figure 114-16,	one index is repeated: GCTF	RL1 GCTRL2 G	CTRL4 GCTRL4.	Expression: using "qu	adruple" instead of "quadruple	et" and "triple" in	stead of "triplet".
SuggestedRemedy				SuggestedRemedy			
Should be: GCTRL1 GCTRL2 GCTRL3 GCTRL4.				Replace "quadruple" with "quadruplet" and "triple" with "triplet" when meaning "a set of 4 (o 3) bits". Several occurrences in this section: I.5, I.13, I.14			
Response	Response Status C			3) bits . Several occu	rrences in this section: 1.5, 1.13	, I.14	
ACCEPT.				Response	Response Status C		
					uadruple are right in mathema ese terms are to be eliminated		xt of tuples.

C/ 114 SC 114.2.4.3.3 Mendo, Carmen	Р 53 КDPOF	L 52	# 200	C/ 114 So Mendo, Carmer	C 114.2.4.3 n	3.4	<i>Р</i> 56 КDPOF	L16	# 203
Comment Type E Layout: formulae 114-7 a	Comment Status A and 114-8, and Figure 114-2	3 should be kept	together for clarity.	Comment Type Typo: " wł			<i>t Status</i> A notes reminder a	fter integer division	n."
SuggestedRemedy Keep formulae 114-7 and the paragraph on p.54, I. Response ACCEPT.	d 114-8 on the same page, a 6). <i>Response Status</i> C	and move Figure	114-23 up (just before	SuggestedRem Should be ' Response ACCEPT.		not "reminde <i>Response</i>	r". Status C		
C/ 114 SC 114.2.4.3.3 Iendo, Carmen	<i>P</i> 55 KDPOF	L 28	# 201	Mendo, Carmer			Р 57 КDPOF	L 21	# 204
Comment Type E	Comment Status A odd, so that the upper branc	ь "		Comment Type Expression		<i>Commen</i> raph looks too	t Status A o verbose?		
SuggestedRemedy Suggest that for the mea " (remove "that"). Response ACCEPT.	ning this should rather read Response Status C	: " kQAM is odd	, so the upper branch	At the output together as	21-24 ("Afte ut of the firs shown in F -phase and	t lattice transfigure 114-27,	, thus performing	27.") with: /mbols from the tw g the coset partitior nereafter labeled a	ning over Z2. The
C/ 114 SC 114.2.4.3.3		L 21	# 202	Response ACCEPT.		Response	Status C		
SuggestedRemedy	KDPOF Comment Status A Figure 114-24 (missing cons e as "Figure 114-24 - 8-QAN Response Status C	,	oper" (add "8-").	Mendo, Carmer Comment Type Expression SuggestedRem	e E n, redundant <i>nedy</i>	Comment info.	P 57 KDPOF <i>t Status</i> A	L 51 xplained): remove:	# 205
ACCEPT.				"whose in-p		uadrature r	espectively, "	xpiailieu). remove:	
				Response ACCEPT.		Response	Status C		

C/ 114 SC 114.2.4.3.6 P57 Mendo, Carmen KDPOF	L 51	# 206	C/ 114 SC 114.2.4.3.6 P 58 L 16 # 209 Mendo, Carmen KDPOF KDPOF <td< td=""></td<>
Comment Type E Comment Status A Expression: missing "The"?			Comment Type E Comment Status A Expression on II.16-18: "Second lattice transformation operates respectively".
SuggestedRemedy Replace: "2D symbols" with "The 2D symbols". Response Response Status C ACCEPT.			SuggestedRemedy The second lattice transformation operates on 2D symbols (denoted by x). Again we consider that x is a complex number where the real and imaginary parts are respectively the in-phase and quadrature components of the 2D symbol. Response Response Status C
C/ 114 SC 114.2.4.3.6 P58 Mendo, Carmen KDPOF	L 3	# 207	ACCEPT.
Comment Type E Comment Status A Typo: "Modulo operation which constraints". SuggestedRemedy			Cl 114 SC 114.2.4.3.6 P 58 L 38 # 210 Mendo, Carmen KDPOF Comment Type E Comment Status A Expression: "Since in the above that shows the operation".
Should be: "Modulo operation which constrains". Need to correct also in p.58 l.21.			SuggestedRemedy For clarity, suggest to replace the beginning of this paragraph: "Note that the divisor in the modulo operation above is a power of 2; it can therefore be simplified into a logic "AND". Figure 114-29 shows the operation"
Response Response Status C ACCEPT.			Response Response Status C ACCEPT IN PRINCIPLE.
Cl 114 SC 114.2.4.3.6 P 58 Mendo, Carmen KDPOF	L 8	# 208	"The divisor in the modulo operation above is a power of 2; it can therefore be simplified into a logic AND (denoted by &). Figure 114-29 shows the operation"
Comment Type E Comment Status A Expression: "In particular, the complete second lattice			C/ 114 SC 114.2.4.3.7 P58 L 53 # 211 Mendo, Carmen KDPOF
SuggestedRemedy Remove "In particular".			Comment Type E Comment Status A Expression: redundant: "The multiplexing operation performed by the multiplexer".
Response Response Status C ACCEPT.			SuggestedRemedy Remove "multiplexing" at the beginning of the sentence.
			Response Response Status C ACCEPT.

C/ 114 SC 114.2.4.3.7 P59 L6 # 212 Mendo, Carmen KDPOF	C/ 114 SC 114.2.4.4 P60 L22 # 215 Mendo, Carmen KDPOF KDP
Comment Type E Comment Status A Expression: "should be reset".	Comment Type E Comment Status A Typo? In Figure 114-32, input is: "From coded 16-PAM Encoder".
SuggestedRemedy Suggest to replace with "shall be reset".	SuggestedRemedy Remove "coded"? Better as just "From 16-PAM Encoder"
Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT.
"The 1-bit free counter used to control the multiplexer is reset with value 0. Because the counter wraps around for each pair of"	C/ 114 SC 114.2.3 P41 L25 # 216 Mendo, Carmen KDPOF
	Comment Type E Comment Status A
	Expression: "A Physical Header Data (PHD) consists of".
Iendo, Carmen KDPOF	Expression: "A Physical Header Data (PHD) consists of". SuggestedRemedy Should better read: "A Physical Header Data block (PHD) consists of".
Mendo, Carmen KDPOF Comment Type E Comment Status A Expression: complicated: " precoding. Two different parts symbol scrambler."	SuggestedRemedy
Mendo, Carmen KDPOF Comment Type E Comment Status A Expression: complicated: " precoding. Two different parts symbol scrambler." SuggestedRemedy Suggest to simplify: " precoding; the scrambling process consists of the two parts explained below." Suggest consists of the two parts	SuggestedRemedy Should better read: "A Physical Header Data block (PHD) consists of". Response Response Status C
Mendo, Carmen KDPOF Comment Type E Comment Status A Expression: complicated: " precoding. Two different parts symbol scrambler." SuggestedRemedy Suggest to simplify: " precoding; the scrambling process consists of the two parts explained below." Response Status C	SuggestedRemedy Should better read: "A Physical Header Data block (PHD) consists of". Response Response Status C ACCEPT IN PRINCIPLE. The term "block" is used too extensivily in the text. It is suggested: "The Physical Header Data (PHD) consists of" C/ 114 SC 114.2.4.5 P60 L 52 # 217
Mendo, Carmen KDPOF Comment Type E Comment Status A Expression: complicated: " precoding. Two different parts symbol scrambler." SuggestedRemedy Suggest to simplify: " precoding; the scrambling process consists of the two parts explained below." Response Response Status C ACCEPT IN PRINCIPLE. " precoding. The scrambling process consists of the two parts explained below." L36 # 214 Mendo, Carmen KDPOF KDPOF L36 # 214	SuggestedRemedy Should better read: "A Physical Header Data block (PHD) consists of". Response Response Status C ACCEPT IN PRINCIPLE. The term "block" is used too extensivily in the text. It is suggested: "The Physical Header Data (PHD) consists of"
Mendo, Carmen KDPOF Comment Type E Comment Status A Expression: complicated: " precoding. Two different parts symbol scrambler." SuggestedRemedy SuggestedRemedy Suggest to simplify: " precoding; the scrambling process consists of the two parts explained below." Response Response Status C ACCEPT IN PRINCIPLE. " precoding. The scrambling process consists of the two parts explained below." 214 SC 114.2.4.4 P59 L 36 # 214 Mendo, Carmen KDPOF Comment Type E Comment Status A Typo: "the left most digit". Typo: "the left most digit". A C C	SuggestedRemedy Should better read: "A Physical Header Data block (PHD) consists of". Response Response Status C ACCEPT IN PRINCIPLE. The term "block" is used too extensivily in the text. It is suggested: "The Physical Header Data (PHD) consists of" C/ 114 SC 114.2.4.5 P60 L52 Mendo, Carmen KDPOF Comment Type E
Mendo, Carmen KDPOF Comment Type E Comment Status A Expression: complicated: " precoding. Two different parts symbol scrambler." SuggestedRemedy SuggestedRemedy Suggest to simplify: " precoding; the scrambling process consists of the two parts explained below." Response Response Status C ACCEPT IN PRINCIPLE. " precoding. The scrambling process consists of the two parts explained below." 214 C/ 114 SC 114.2.4.4 P59 L36 # 214 Mendo, Carmen KDPOF Comment Type E Comment Status A	SuggestedRemedy Should better read: "A Physical Header Data block (PHD) consists of". Response Response Status C ACCEPT IN PRINCIPLE. The term "block" is used too extensivily in the text. It is suggested: "The Physical Header Data (PHD) consists of" C/ 114 SC 114.2.4.5 P60 L52 Mendo, Carmen KDPOF Comment Type E Comment Status A Typo: " the symbols at the input of THP belogs to". SuggestedRemedy
Mendo, Carmen KDPOF Comment Type E Comment Status A Expression: complicated: " precoding. Two different parts symbol scrambler." SuggestedRemedy SuggestedRemedy Suggest to simplify: " precoding; the scrambling process consists of the two parts explained below." Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. C 114 SC 114.2.4.4 P59 L 36 # 214 Mendo, Carmen KDPOF Comment Type E Comment Status A SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy	SuggestedRemedy Should better read: "A Physical Header Data block (PHD) consists of". Response Response Status C ACCEPT IN PRINCIPLE. The term "block" is used too extensivily in the text. It is suggested: "The Physical Header Data (PHD) consists of" C/ 114 SC 114.2.4.5 P60 L52 # 217 Mendo, Carmen KDPOF Comment Type E Comment Status A Typo: " the symbols at the input of THP belogs to". SuggestedRemedy Should read: " the symbols at the input of the THP belong to".

C/ 114 SC 114.2.4. Mendo, Carmen	5 <i>P</i> 60 KDPOF	L 53	# 218	C/ 114 SC 114.3.1 Mendo, Carmen	Р 62 КDPOF	L 4	# 221
Comment Type E Layout: range of value	Comment Status R es split over different pages.			<i>Comment Type</i> E Typo: " from the least t	Comment Status A o the more significant".		
SuggestedRemedy Keep the range "[-16, ²	16)" in the same page and line	for clarity.		SuggestedRemedy Should read: " from the	e least to the most significant .	.".	
Response REJECT.	Response Status C			Response ACCEPT.	Response Status C		
Such auto-hyphenatio	n is consistent with IEEE style			C/ 114 SC 114.3.2.1.		L 48	# 222
C/ 114 SC 114.3 Mendo, Carmen	<i>Р</i> 61 КDPOF	L 20	# 219	Mendo, Carmen <i>Comment Type</i> E	KDPOF Comment Status R		
Comment Type E	Comment Status A			Expression: " shall car	ry out the clock recovery".		
21	e PHY control state diagrams	that involve both	the local PHV and the	SuggestedRemedy			
link partner PHY."				Suggest: " shall perform	m the clock recovery".		
SuggestedRemedy				Also on p.62 l.52-53: "	shall be carried out".		
Remove extra comma	and simplify, for example: ines that control both the local	and remote PH	Ys."	Also on p.65 l.44: " to o	carry out continuous adaptatio	n".	
Response	Response Status C			Response	Response Status C		
ACCEPT IN PRINCIP	•			REJECT.	Response Status C		
Accept but replacing "	state machines" with "state dia	grams"		Synonym			
C/ 114 SC 114.3.1 Mendo, Carmen	Р 62 КDPOF	L1	# 220	C/ 114 SC 114.3.2.1. Mendo, Carmen	1 <i>P</i> 62 KDPOF	L 49	# 223
Comment Type E Expression: " reserve	Comment Status A ed for the exchange of OAM m	essages itself."		Comment Type E Format: avoid splitting n	Comment Status A nnemonics between lines.		
SuggestedRemedy Singular "itself" is inco	prrect. Suggest: " reserved for	the contents of	the OAM messages."	SuggestedRemedy Keep "PMARX_TIMING	COARSE" in one line.		
Response	Response Status C			Response	– Response Status C		
ACCEPT IN PRINCIP	LE.			ACCEPT IN PRINCIPLE	,		
Eliminate "itself" and r "PHD.OAM.* fields are	nodify as: e reserved for the OAM messa	ges exchange."		Hyphenation consistent Anyway, to stop auto-hy cursor over word and Es	phenation on a single word:		

/ 114 SC 114 lendo, Carmen	.3.2.1.1	<i>Р62</i> КDPOF	L 54	# 224	C/ 114 Mendo, Car	SC 114.3.2.1. men	.1 <i>P</i> 65 KDPO		L 29	# 226
omment Type E Confusing format		mment Status A a sentence with a 3-pa	ge table.			ing expression (Comment Status and wrong reference?		king algorit	hms in
uggestedRemedy							TUS, see 114.3.2)".			
		1.54 and continued at	p.65 I.23 should	instead finish at p.63	Suggested	-		the final set	fa	uning blind the sleing
I.1 (before Table esponse ACCEPT.	,	ponse Status C			algorith receive should	ms, these may b r should be able		lizers are tra PHD sent b	ained. Also and the link particular the link particular termination of terminatio	at this point the PHY
114 SC 114	.3.2.1.1	P 63	L 1	# 225	Response		Response Status	с		
ndo, Carmen		KDPOF			ACCEF	PT IN PRINCIPL	E.			
<i>mment Type</i> E Confusing layout:		mment Status A			Blind al	gorithms are for	timing recovery.			
iggestedRemedy					Accept	but modify as:				
Move to the end of	of 114.3.1.				"Blind t	racking algorithr	ns for timing recovery	mav be ena	bled after th	ne equalizer training
sponse	Res	ponse Status C			has fini	shed.	0,	2		
ACCEPT.					link par	tner; in particula	IY receiver should be r it should be able to tion of the PHD on its	determine wh		
						nce is to be elim s the right refere	inated, because next ence.	sentence reç	garding to P	HD reliability already
					C/ 114 Mendo, Car	SC 114.3.2.1	1 <i>P</i> 65 KDPO		L 36	# 227
					Comment 7 Express	51	Comment Status		d in 114.3.2	.2.2."
						t to rephrase: ".	the PHY receiver sh	ould be able	to initialize	the THP following the
					Response ACCEF	PT IN PRINCIPL	Response Status E.	с		
						PHY receiver sha 3.2.2.2."	all be able to initialize	the THP follo	owing the s	tate diagram explaine
							"shall". If PHD is lock n PHYs at PHD level		to be initiali	zed, because

Comment ID 227

C/ 114 SC 114.3.2.1.1 Mendo, Carmen	<i>Р</i> 65 КDPOF	L 40	# 228	C/ 114 SC 114.3.2.1.2 P66 L1 # 231 Mendo, Carmen KDPOF
Comment Type E Comm Expression too verbose: " whet	nent Status A ner a reliable recept	tion is taking pla	ce."	Comment Type E Comment Status A Confusing layout: Figure 114-35 on p.67 as if belonging to 114.3.2.1.3.
SuggestedRemedy Suggest to rephrase: " whether	this reception is rel	iable."		SuggestedRemedy Part of 114.3.2.1.2 so should appear before the beginning of next section eg on p.66.
Response Respon ACCEPT.	nse Status C			Response Response Status C ACCEPT.
C/ 114 SC 114.3.2.1.1 Mendo, Carmen	P 65 KDPOF	L 41	# 229	C/ 114 SC 114.3.2.1.2 P66 L2 # 232 Mendo, Carmen KDPOF
Comment Type E Comm Should be more precise: " by us	ent Status A	NKSTATUS field".		Comment Type E Comment Status A Expression: "Once the PMA is connected in 114.2.1, so that the remote PHY".
SuggestedRemedy				SuggestedRemedy
	ng the PHD.RX.LIN nse Status C	KSTATUS field".		Suggest rephrasing more simply: "Once the PMA is connected to the PMD (link_control=ENABLE), the local PHY starts sending Transmit Blocks as explained in 114.2.1, so that the remote PHY".
ACCEPT IN PRINCIPLE.				Response Response Status C
" by asserting OK in the PHD.R	X.LINKSTATUS fiel	d"		ACCEPT IN PRINCIPLE.
C/ 114 SC 114.3.2.1.1	P 65 KDPOF	L 43	# 230	Accept, but replace PMA with PCS.
Mendo, Carmen				
	<i>hent Status</i> R ' should be able to	prop-".		
Comment Type E Comm Format: confusing hyphenation:		prop-".		
Comment Type E Comn		prop-".		

C/ 114 SC 114.3.2.1. Mendo, Carmen	3 <i>P</i> 66 KDPOF	L 19	# 233	<i>Cl</i> 45 Mendo, Ca	SC 45.2.3.4 armen	8	Р 24 КDPOF	L 9	# 235	
Comment Type E	Comment Status A			Comment	Type ER	Commer	nt Status A		OA	AM
	ocal PHY received from the	ne remote PHY."	Also PHD field names	In Tab	le 45-120, regis	ster TXOAM_[DATA8 is missin	g.		
don't match Table 114-2	· · · ·			Suggested	Remedy					
SuggestedRemedy			44.0. IITh a supplicible a	Add a	line for TXOAN	1_DATA8 at th	e end of the tab	le (3.508.15:0).		
loc_rcvr_status and rem respectively. When the reliable, it changes loc_	e clearly and using field na _rcvr_status track the state PHY determines that its rec rcvr_status to OK and asse from its link partner a PHD	e of local and rem eption of payload rts field LOCPHD	ote data reception data sub-blocks is		PT IN PRINCIF corrected with	LE.	e Status C medy of comme	nt #306, if accept	ted	
	TUS asserted, it changes re) OK."	C/ 45	SC 45.2.3.4	8	P 24	L 9	# 236	
Response	Response Status C			Mendo, Ca	irmen		KDPOF			
ACCEPT IN PRINCIPLI				Comment	Type ER	Commer	nt Status A		OA	AM
Modify 114.3.2.1.3 text	rom line 20 as:			In Tab registe		ster numbers i	n colunm "Bit(s)	are wrong for T	XOAM_DATAx	
	status and rem_rcvr_status			Suggested	Remedy					
with field REMPHD.RX. reliable reception of ren When both, local and re is established (transitior payload data sub-blocks	mote, PHY receivers detec to LINK_UP state). If one with reliability (loc_rcvr_st	nges rem_rcvr_sta t reliable receptio of the link partner atus = NOT_OK o	atus to OK, indicating n the bidirectional link s fails to receive or rem_rcvr_status =	3.503. 3.504. 3.505. 3.506. 3.506. 3.507.	15:0 TXOAM_ 15:0 TXOAM_ 15:0 TXOAM_ 15:0 TXOAM_ 15:0 TXOAM_ 15:0 TXOAM_ 15:0 TXOAM_ 15:0 TXOAM	DATA3 DATA4 DATA5 DATA6 DATA7				
NOT_OK), the bidirection	nal link is lost (transition to	LINK_DOWN sta	ite)."	Response	_	Response	e Status C			
C/ 114 SC 114.3.2.1. Mendo, Carmen	4 <i>P</i> 68 KDPOF	L 9	# 234	ACCE	PT.					
Comment Type E Naming: counter "hdr fa	Comment Status A			<i>Cl</i> 45 Mendo, Ca	SC 45.2.3.4 armen	8	<i>Р25</i> КDPOF	<i>L</i> 1	# 237	
SuggestedRemedy				Comment	Type ER	Commer	ot Status A		OA	AM
Change to hdr_fail_cnt	or hdr fail count)							not match in Tab	le 45-120 and sections	;
Response	Response Status C			- Table		@ 3.500.14,	MERT @ 3.500	.13, MSGT @ 3.9 .12, MSGT @ 3.9		
ACCEPT IN PRINCIPLI	1.			Suggested	Remedy					
Use hdr_fail_count.				Chang	e the location of	of bits either in	Table 45-120 o	r in the text.		
Modify accordingly text,	state diagrams and state v	ariables definition	l.			LE.	e Status C			
				This is	corrected with	suggested re	medy of comme	nt #306, if accept	tea	
							-			

I YPE: 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 Z/withdrawn SORT ORDER: Comment ID

15/07/2015 16:23:12

C/ 45 SC 45.2.3.48 Mendo, Carmen	<i>Р</i> 25 КDPOF	L 29	# 238	Cl 45 SC 45.2.3.48 Mendo, Carmen	Р 25 КDPOF	L 25	# 241
	Comment Status A (VAL" is wrong in Table 45-12	21 (column "Bit(s)").	OAM		Comment Status A r numbers in colunm "Bit(s) TAx in the current version).		OAI XOAM_DATAX
SuggestedRemedy Should be 3.509.15, not	t 3.500.15.			SuggestedRemedy	,		
Response ACCEPT IN PRINCIPLE This is corrected with su	Response Status C <u> -</u> uggested remedy of comment	#306, if accepted		Register numbers and n 3.510.15:0 RXOAM_DA 3.511.15:0 RXOAM_DA 3.512.15:0 RXOAM_DA 3.513.15:0 RXOAM_DA	NTA1 NTA2 NTA3		
Cl 45 SC 45.2.3.48 Mendo, Carmen	<i>Р</i> 25 КDPOF	L 32	# 239	3.514.15:0 RXOAM_DA 3.515.15:0 RXOAM_DA	TA5 TA6		
Comment Type ER Bits 14:0 of the control r 36.	Comment Status A register 3.509 are wrongly pla	ced in 3.510. Affects	OAM i lines 32, 34 and	3.516.15:0 RXOAM_DA 3.517.15:0 RXOAM_DA This would match the te:	NTA8 xt in 45.2.3.48.12.		
SuggestedRemedy Replace: 3.510.14:13 should be 3.510.12 should be 3.510.11:0 should be	3.509.12			Response ACCEPT IN PRINCIPLE This is corrected with su Cl 45 SC 45.2.3.50.4 Mendo, Carmen	ggested remedy of comme	nt #306, if accepte	ed # 242
Response ACCEPT IN PRINCIPLI This is corrected with su	Response Status C <u> -</u> uggested remedy of comment	#306. if accepted		<i>Comment Type</i> ER Empty section. Same for	Comment Status A r 45.2.3.50.15.		C4
C/ 45 SC 45.2.3.48 Mendo, Carmen	<i>Р</i> 25 КDPOF	L25	# 240	SuggestedRemedy Add field explanation. Fo "This bit indicates the O	or example: AM capability reported by th	ne local PHY."	
Comment Type ER In Table 45-121, registe	Comment Status A er RX_OAM_DATA8 is missin	g.	OAM	Response ACCEPT IN PRINCIPLE	Response Status C		
SuggestedRemedy Add a line for RX_OAM	_DATA8 at the end of the tab	le (3.517.15:0).		See comment #406			
Response ACCEPT IN PRINCIPLE This is corrected with su	Response Status C <u></u>	#306, if accepted					

C/ 45 SC 45.2.3.51. Mendo, Carmen	1 P 31 KDPOF	L 37	# 243		C/ 114 SC 114.2.4 .3 Mendo, Carmen	3.2 P 52 KDPOF	L 2	# 246
Comment Type ER No explanation of the fix	Comment Status A ed-point format notation.			C45	Comment Type E Typo: "pc=nc-kc" shou	Comment Status A Id be "p=n-k" to follow the no	tation in this secti	on.
	= M bits of which N for integence to 114.3.1 where it is exp <i>Response Status</i> C				SuggestedRemedy Replace the formula w Response ACCEPT IN PRINCIPI Subclause 114.2.4.3.2	Response Status C	ature: p, n, k.	
C/ 45 SC 45.2.3.50.		L 3	# 244		Modify accordingly.			
Mendo, Carmen Comment Type T Wrong explanation of fie	KDPOF Comment Status A Id 3.519.15 (copy of 3.519.1)	2)		C45	C/ 45 SC 45.2.3.4 Mendo, Carmen	8 P 24 KDPOF	L1	# 247
SuggestedRemedy Replace with correct des "This bit indicates the vastatus reported by the lo Response ACCEPT IN PRINCIPLE See comment #405	lue of the state variable loc_ cal receiver." <i>Response Status</i> C	rcvr_status whic	h reflects the link		Comment Type E Typo: "used to provid SuggestedRemedy Should read: "used to Response ACCEPT.			OAM
C/ 114 SC 114.2.2.2 Mendo, Carmen	<i>Р</i> 41 КDPOF	L7	# 245		Cl 45 SC 45.2.3.4 Mendo, Carmen	8 P 25 KDPOF	L 43	# 248
Comment Type E	Comment Status A /hat are the multiply / add sy	mbols at the out	put of the path?			Comment Status A ata registers are named "RX_ TX registers nor with the tex		
SuggestedRemedy Remove the multiply / ad	dd symbols at the output of th	e path.			SuggestedRemedy	DATAx rather than RX_OAM		
Response ACCEPT. See comment #320.	Response Status C				- Response ACCEPT IN PRINCIPI	Response Status C E. Suggested remedy of comme	_	

Cl 45 SC 45.2.3.49. Mendo, Carmen	2 <i>P</i> 27 KDPOF	L 48	# 249	C/ 45 SC 45.2.3.49.3 P 28 L 7 Mendo, Carmen KDPOF K	# 252
Comment Type E The sentence "data sh SuggestedRemedy	Comment Status A nall be processed looped bac	k" seems incorr	C4.	Comment TypeEComment StatusATypo: " Setting to zero (disable) cause".Also in 45.2.3.49.4 (p.28, l.13).	C45
Missing "and"? Sugges	t "data shall be processed a	nd looped back.		SuggestedRemedy Should be: " Setting to zero (disable) causes".	
Response ACCEPT.	Response Status C			Response Response Status C ACCEPT.	
C/ 45 SC 45.2.3.49	2 P27	L 52	# 250	See comment #285 and #286	
Mendo, Carmen <i>Comment Type</i> E	KDPOF Comment Status A		C4	C/ 45 SC 45.2.3.50 P 29 L 43 Mendo, Carmen KDPOF	# 253
Typo: " to the GMII red SuggestedRemedy Should be: " to the GM	III receive interface".			Comment Type E Comment Status A Typo: in Table 45-123, in the description of fields 3.519.3 and 3.51 SuggestedRemedy	C45 9.2: " or it is disable".
Response ACCEPT.	Response Status C			Should be: " or it is disabled".	
Cl 45 SC 45.2.3.49 Mendo, Carmen	Р 27 КDPOF	L1	# 251	Response Response Status C ACCEPT.	
51 1	Comment Status A t at the end of the section he	0	C4.	C/ 45 SC 45.2.3.52.1 P 32 L 16 Mendo, Carmen KDPOF	# 254
Also in 45.2.3.50 (p.29) SuggestedRemedy Remove exclamation p	, 45.2.3.51 (p.31), 45.2.3.52 bint.	(p.32), 45.2.3.53	(p.32).	Comment Type ER Comment Status A Missing details of format. SuggestedRemedy	C45
Response	Response Status C			Add reference to 45.2.3.51.1, assuming the format is the same.	
ACCEPT.				Response Response Status C ACCEPT.	

C/ 45 S Mendo, Carmo	SC 45.2.3.53 en	Р 32 КDPOF	L 26	# 255		C/ 45 Mendo, Carn	SC 45.2.3.49 nen	.2 P27 KDPOF	L 46	# 258
<i>Comment Typ</i> Typo: in T		Comment Status A he description of 3.522.15 se	ems to be corru	pted.	C45	Comment Ty The expl	,	Comment Status A "PMD level loopback" may	not be complete.	C4
	intended to be the BER test n	a reference to the counter fi node counter in 3.522.14:0 Response Status C	eld in the same i	register:		Response	does not spec	ify whether there is transmit Response Status C	: output through th	e PMD in this mode.
ACCEPT. See comm						Signal ou loopback	functionality a	E. ID transmit function is not re and it is up to the implement PHY is configured in this lo	ter the which kind	
Mendo, Carmo Comment Typ	e ER	P32 KDPOF Comment Status A ocation for field "BER test m	L 28 ode counter" (in	# 256 column "Bit(s)").	C45	However "In PCS service it	, the explanati PMD interface nterface, comp	ion may not be complete. C level loopback, the loopba pletely exercising PCS and I accept signals from the PM	onsider to improve k shall be implem MA transmit and	nented at the PMD receive functions. The
SuggestedRei Replace 3 Response	<i>medy</i> 3.521.14:0 with	3.522.14:0. Response Status C				C/ 114 Mendo, Carn Comment Ty		P 36 KDPOF Comment Status A	L 43	# 259
ACCEPT.	SC 45.2.3.49 .2		L 43	# 257		In Figure SuggestedRe	a 114-2 the cor e <i>medy</i>	nnections are TX/TX and RX	<pre>K/RX, without cros</pre>	sover.
Mendo, Carme Comment Typ The expla	e T	KDPOF Comment Status A GMII level loopback" is uncle	ear.		C45	Snow cro Response ACCEPT	ossover TX/R≯ 	Response Status C		
	se: "looping th t of the PCS is	e data back to the receive p active (contradicts the next			e	C/ 114 Mendo, Carn Comment Ty		P 37 KDPOF Comment Status A	L 10	# 260
Response ACCEPT See comn	IN PRINCIPLE nent #386	Response Status C				SuggestedRe Redraw			seems incorrect.	
						ACCEPT	-			

Comment ID 260

C/ 114 SC 114.2.4 Mendo, Carmen	.1.1 P44 KDPOF	L 38	# 261	C/ 114 SC 1 [.] Mendo, Carmen	14.3.2.1.4	Р 68 КDPOF	L7	# 263
Comment Type TR Clarify in the text wha extend).	Comment Status R thappens to GMII encodir	ngs "not relevant" fo	or this case (eg carrier	Expression: "Th	nis shall be i	Comment Status A ndicated to LOCKHDI t clear. Some typos in va		is occurs."
SuggestedRemedy				SuggestedRemedy				
The Matlab code in 1 requirement.	14.2.4.1.2 replaces them v	vith "normal inter-fra	ame"; specify if this is a		ndicated to th	imply: he link partner by assigr S on the transmitted PHI		
Response REJECT.	Response Status C			receiver is waiti the count of cor	ing for a vali ntiguous PH	d PHD i.e. one with corr D blocks received with e	rect CRC-16; vari errors. Reception	iable hdr_fail_cnt holds of one correct PHD
therefore redundant in	ed as formal definition (no nformation in text should n	ot be needed.		(hdr_fail_cnt=0) LOCPHD.RX.H 16 of received I resetting it with). In state LC DRSTATUS PHD blocks, each valid F	te LOCKHDR_LOCK ar DCKHDR_LOCK the value are assigned the value incrementing hdr_fail_c PHD. If hdr_fail_cnt read unction detects that the	riable loc_rcvr_ho OK. The PHY ke cnt with each erro ches the limit of N	dr_lock and the field eeps checking the CRC oneous PHD and /IAX_HDR_FAIL=2, or
C/ 114 SC 114.2.4 Mendo, Carmen	.1.1 P46 KDPOF	L1	# 262			CHDR_UNLOCK.		
Comment Type TR	Comment Status R			Response ACCEPT IN PR		esponse Status C		
Clarify if detecting no	n-contiguous control samp gation" is a requirement.	les and replacing a	ll the chunk with		modification	is to match with state dia	agram and consid	dering remedies of
SuggestedRemedy								
	n the text, which implies th e Matlab code in 114.2.4.1			LOCPHD.RX.H receiver is waiti	DRSTATUS	he link partner by assign on the transmitted PHI d PHD (i.e. one with con	D. In this state (Le rrect CRC-16) an	OCHDR_UNLOCK) the d variable hdr_fail_cnt
Response REJECT. See comment #299.	Response Status C			0). Reception o LOCKHDR_LO are assigned th incrementing ho hdr_fail_cnt rea	f one correc CK the varia le value OK. dr_fail_cnt w iches the lim	iguous PHD blocks rece t PHD triggers the trans able loc_rcvr_hdr_lock a The PHY keeps checki vith each erroneous PHI hit of 2, or the Clock Rec he state transitions back	ition to state LOC and the field LOC ing the CRC-16 o D and resetting it covery function de	CKHDR_LOCK. In state PHD.RX.HDRSTATUS freceived PHD blocks, with each valid PHD. If etects that the PHY has

C/ 114 SC 114.3.2.1.4 P69	37 # 264	C/ 114 SC 114.3.2.1.5 P71 L42 # 267
Nendo, Carmen KDPOF		Mendo, Carmen KDPOF
Comment Type E Comment Status A Format: confusing hyphenation.		Comment Type E Comment Status A Typo: " payload data is received".
SuggestedRemedy		SuggestedRemedy
Do not split variable names between lines, keep "rcvr_hdr_	lock" in one line.	Should read: " payload data are received".
Also for PMAMON_WAITING in 114.3.2.3, p.78, I.5.	0	Response Response Status C
Also for THPREQ_WAITFOR_EST in 114.3.2.2.2, p.73, I.4	9.	ACCEPT.
Response Response Status C		
ACCEPT IN PRINCIPLE.		C/ 114 SC 114.3.2.1.5 P72 L3 # 268
Auto-hyphenation consistent with IEEE style, although it ca		Mendo, Carmen KDPOF
reading, by typing Esc+n+s sequence in FM with cursor o	ver the word.	Comment Type E Comment Status A
7 114 SC 114.3.2.1.5 P70	41 # 265	Typo: "PHY transmitter are enabled".
endo, Carmen KDPOF		SuggestedRemedy
comment Type E Comment Status A		Should read: "PHY transmitter is enabled".
Typo: " with the start start of".		Also in I.5.
uggestedRemedy		Response Response Status C ACCEPT IN PRINCIPLE.
Remove extra "start".		ACCEPT IN PRINCIPLE.
Response Response Status C		See comment #422
ACCEPT.		C/ 114 SC 114.3.2.1.5 P72 L3 # 269
		Mendo, Carmen KDPOF
	46 # 266	Comment Type T Comment Status A
lendo, Carmen KDPOF		Effect of tx enable on PMD TX not clear: "as a function of the operation mode (i.e. norma
Comment Type E Comment Status A		idle, or LPI)"
Typo: " from the receive signal."		SuggestedRemedy
uggestedRemedy		Clarify?
Suggest that this should be "the received signal". Also in I.	48 and I.50.	Response Response Status C
Response Response Status C		ACCEPT IN PRINCIPLE.
ACCEPT.		See comment #422

Cl 114 SC 114.3.2.2 Mendo, Carmen	Р 72 КDPOF	L 22	# 270		C/ 114 SC 114.3.2.2.1 Mendo, Carmen	P 73 KDPOF	L 38	# 273
Comment Type E Typo: " in charge to lin	Comment Status A earize".			THP	Comment Type E Confusing layout: Figure	Comment Status A 114-40 far from section 11	4.3.2.2.1.	THP
SuggestedRemedy					SuggestedRemedy			
Should read: " in charg	e of linearizing".				Keep Figure 114-40 with	in section 114.3.2.2.1.		
Response ACCEPT.	Response Status C				Response ACCEPT IN PRINCIPLE	Response Status C		
C/ 114 SC 114.3.2.2 Mendo, Carmen	<i>Р72 КDPOF</i>	L 23	# 271		All the comments receive attached file "perezarance	ed to subclause 114.3.2.2 a la_GEPOF_5_0715"	are addressed in t	ext proposed in
Comment Type T Requisite not clear: [cha	Comment Status A annel linearization] "is to be f	ully implemented	I in the PHY".	THP	C/ 114 SC 114.3.2.2.2 Mendo, Carmen	2 P73 KDPOF	L 5 1	# 274
SuggestedRemedy Clarify or suppress this	requirement.				Comment Type T Clarify FFF management	Comment Status R		THP
Response ACCEPT IN PRINCIPLE	Response Status C E.				SuggestedRemedy If FFF coefficients are ha clarity. Otherwise explair	andled in the same way as l n.	FBF then remove	"FBF" from I.51 for
See comment #423					Response REJECT.	Response Status C		
Cl 114 SC 114.3.2.2. Mendo, Carmen	1 <i>P</i> 73 KDPOF	L 29	# 272			ed to subclause 114.3.2.2 a la_GEPOF_5_0715", when		
Comment Type E Typo: " all subsequent	Comment Status R sent Transmit Blocks".			THP		ry for interoperability. Only		
SuggestedRemedy Remove "sent": "all sub-	sequent Transmit Blocks".							
Response	Response Status C							

attached file "perezaranda_GEPOF_5_0715"

<i>Cl</i> 114 <i>SC</i> 114.3.2.2. Mendo, Carmen	2 <i>P</i> 76 KDPOF	L14	# 275	C/ 114 SC 114.5 Mendo, Carmen	Р 87 КDPOF	L 34	# 278
Comment Type T Transition from THPRE confusing.	Comment Status R Q_UPDATE to THPREQ_S	FORE through TH	<i>THP</i> IPREQ_REQUEST	Comment Type E Typo: " allowing can SuggestedRemedy	Comment Status A ying the LPI signaling".		
SuggestedRemedy				,	" carrying the LPI signaling	" (remove "allow	wing").
Would understand bette are enabled for use.	er a transition through a diffe	rent state where s	stored FFF coefficients	Response	Response Status C		
Response	Response Status C			ACCEPT.			
REJECT.				C/ 114 SC 114.5.2	P 90	L 47	# 279
All the comments receiv	red to subclause 114.3.2.2 a	are addressed in t	ext proposed in	Mendo, Carmen	KDPOF		
attached file "perezaran	da_GEPOF_5_0715"			Comment Type E	Comment Status A		EEE and PMD interfac
C/ 114 SC 114.3.2.2.	3 P76	L 43	# 276	Expression: "Therefor	e, the time alignment of trans	mitted PDBs th	e LPI quiet mode."
Mendo, Carmen	KDPOF			SuggestedRemedy			
SuggestedRemedy	Comment Status A et by a PHD reception, it is t item: "Variable set by a PHD				PHY re-enters normal operation nce of an LPI interval." <i>Response Status</i> C	on shall be exact	ly the same as it would
Response	Response Status C						
ACCEPT IN PRINCIPLE	Ξ.			C/ 114 SC 114.6.1 Mendo, Carmen	Р 92 КDPOF	L14	# 280
All the comments receiv attached file "perezaran	red to subclause 114.3.2.2 a da_GEPOF_5_0715"	are addressed in t	ext proposed in	Comment Type E Typo: " from the set -	Comment Status A M+1, -M+3".		PCS to PN
C/ 114 SC 114.3.2.2.		L 44	# 277	SuggestedRemedy			
lendo, Carmen	KDPOF			Missing minus sign, sl	nould read: " from the set {-N	/l+1, -M+3".	
Comment Type E	Comment Status A		THP	Response	Response Status C		
Typo: "in fix-point forma	t".			ACCEPT.			
SuggestedRemedy Should be "in fixed poin Also in Matlab code on							
Response	Response Status C						

C/ 114 SC 114.8.1 Mendo, Carmen	Р 94 КDPOF	L 4	# 281	C/ 45 Ortiz Roje	SC 45.2.3.49 b, David	0.2 P27 KDPOF	L 49	# 284		
Comment Type T Confusing: " configurin	Comment Status A	bler".		Commen Typo	<i>t Type</i> E . "processed" sho	Comment Status R uld be removed.			C45	
SuggestedRemedy Is this "to binary scram	bler"?				edRemedy	received data shall be loop	ed back near"			
Response ACCEPT.	Response Status C			Respons REJI See		Response Status C				
It is the binary scramble	er.			C/ 45	SC 45.2.3.49	.3 P28	L 6	# 285		
C/ 114 SC 114.8.2 Mendo, Carmen	Р 94 КDPOF	L 9	# 282	Ortiz Roj		KDPOF				
Comment Type E Layout: minus sign sep SuggestedRemedy	Comment Status A arate from value.			also	ription is ambiguo	Comment Status A bus. The header field should s OAM ability. Moreover to a not change once the link i	ensure robust ope		C45 and	
	and I.15 in the same line as t	the value.		Suggeste	edRemedy					
Response ACCEPT.	Response Status C			OAM the C	AM protocol (as i	ertised to the link partner wh ndicated in OAM ability bit cted in field PHD.CAP.OAN	of register 3.519) a	and this bit is set.		
C/ 45 SC 45.2.3.49	.2 P27	L 43	# 283	Respons	е	Response Status C	-			
Ortiz Rojo, David	KDPOF				EPT IN PRINCIPL					
Comment Type E Comma missing after G	Comment Status A			OÁM 114-:	OAM capability is advertised to the link partner in field PHD.CAP.OAM as one (see Table 114-2) when the local PHY implementation is able to run the OAM protocol (as indicated in					
SuggestedRemedy Insert a comma after G	MII. The sentence should be:	: "GMII, looping t	he data") and this bit is set. Otherw his bit is reflected in field P				
Response ACCEPT.	Response Status C									

CI 45 S	SC 45.2.3.49.4	4 P 28	L 12	# 286	C/ 45 SC 45.2.3.50 P29 L43 # 2	39
Ortiz Rojo, Dav	vid	KDPOF			Ortiz Rojo, David KDPOF	
Comment Type	e TR	Comment Status A		C	Comment Type E Comment Status A	C45
		s. The header field should			Typo, "disable" should be "disabled". It also happens on line 45.	
		EEE ability. Moreover to er ot change once the link is st		tion value of	SuggestedRemedy	
SuggestedRen					Change to " OAM ability or it is disabled"	
	escription to:				Response Response Status C	
indicated in	n EEE ability l	ised to the link partner whe bit of register 3.519) and thi	is bit is set. The va		ACCEPT.	
reflected ir	n field PHD.C/	AP.LPI only after a PMA res	set.		Cl 45 SC 45.2.3.50.5 P30 L23 # 2	90
Response		Response Status C			Ortiz Rojo, David KDPOF	
	N PRINCIPLE				Comment Type E Comment Status A	C4
EEE capat	bility is advert	ised to the link partner in fie			Typo, "aswhich" should be "which"	
		mplements EEE (as indicate CAP.LPI field is transmitted			SuggestedRemedy	
		AP.LPI only after a PMA res			Change sentence to: " rem_rcvr_hdf_lock which reflects"	
C/ 45 S	SC 45.2.3.50	P29	L14	# 287	Response Response Status C	
Ortiz Rojo, Dav		KDPOF	L 14	# 201	ACCEPT IN PRINCIPLE. See comment #364	
Comment Type		Comment Status A		C	C/ 45 SC 45.2.3.50.8 P30 L38 # 2	91
Typo, miss	sing space.				Ortiz Rojo, David KDPOF	
SuggestedRen	nedv					
00					Comment Type T Comment Status A	C45
00	neay nestate" to "th	e state"			Comment Type T Comment Status A Current description request that the bit should be clear when read. However it sh	
Change "th Response		e state" Response Status C				
Change "th					Current description request that the bit should be clear when read. However it sh updated to the new status when read, which is not neccessarily zero. SuggestedRemedy	
Change "th Response ACCEPT.			L 17	# 288	Current description request that the bit should be clear when read. However it sh updated to the new status when read, which is not neccessarily zero. SuggestedRemedy Replace "This bit is reset to zero when read (see 114.5)" by	
Change "th Response ACCEPT. CI 45 S	Destate" to "th	Response Status C	L17	# <u>288</u>	Current description request that the bit should be clear when read. However it sh updated to the new status when read, which is not neccessarily zero. SuggestedRemedy Replace "This bit is reset to zero when read (see 114.5)" by "This bit is updated to the new status when read".	
Change "th Response ACCEPT. Cl 45 S Ortiz Rojo, Dav	nestate" to "th SC 45.2.3.50 vid	Response Status C	L17	# 288	Current description request that the bit should be clear when read. However it sh updated to the new status when read, which is not neccessarily zero. SuggestedRemedy Replace "This bit is reset to zero when read (see 114.5)" by	
Change "th Response ACCEPT. CI 45 SOrtiz Rojo, Dav Comment Type	nestate" to "th C 45.2.3.50 vid 9 E	Response Status C P29 KDPOF			Current description request that the bit should be clear when read. However it sh updated to the new status when read, which is not neccessarily zero. SuggestedRemedy Replace "This bit is reset to zero when read (see 114.5)" by "This bit is updated to the new status when read". Response Response C	
Change "th Response ACCEPT. Cl 45 S Ortiz Rojo, Dav Comment Type Wording la	C 45.2.3.50 vid e E aks consistence	Response Status C P29 KDPOF Comment Status A			Current description request that the bit should be clear when read. However it shupdated to the new status when read, which is not neccessarily zero. SuggestedRemedy Replace "This bit is reset to zero when read (see 114.5)" by "This bit is updated to the new status when read". Response Response C ACCEPT IN PRINCIPLE.	
Change "th Response ACCEPT. CI 45 SOrtiz Rojo, Dav Comment Type Wording la SuggestedRen	C 45.2.3.50 vid E E aks consistence medy	Response Status C P29 KDPOF Comment Status A	18.		Current description request that the bit should be clear when read. However it shupdated to the new status when read, which is not neccessarily zero. SuggestedRemedy Replace "This bit is reset to zero when read (see 114.5)" by "This bit is updated to the new status when read". Response Response C ACCEPT IN PRINCIPLE.	
Change "th Response ACCEPT. Cl 45 S Ortiz Rojo, Dav Comment Type Wording la SuggestedRen	C 45.2.3.50 vid E E aks consistence medy	Response Status C P29 KDPOF Comment Status A cy with the other description	18.		Current description request that the bit should be clear when read. However it shupdated to the new status when read, which is not neccessarily zero. SuggestedRemedy Replace "This bit is reset to zero when read (see 114.5)" by "This bit is updated to the new status when read". Response Response C ACCEPT IN PRINCIPLE.	

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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 291

7 45 SC 45.2.3.50.14 rtiz Rojo, David	P 31 KDPOF	L18	# 292		C/ 45 SC 45.2.3.51.1 Ortiz Rojo, David	<i>Р</i> 31 КDPOF	L 37	# 294
comment Type TR Comm Missing description.	ent Status A			C45	Comment Type TR Description of the meani	Comment Status A ng of format (14,6) is missir	ıg.	C45
				this	the second number repre-	end of the description: specification te first numbe sents the bits allocated to t mbers to floating point can	he integer part.	A formal description for
ACCEPT IN PRINCIPLE. See comment #406					Response	Response Status C		
45 SC 45.2.3.50.15	P 31 KDPOF	L 20	# 293		ACCEPT IN PRINCIPLE A cross-reference to form			
rtiz Rojo, David omment Type TR Comm Missing description.	ent Status A			C45	Add: "The formal description f in 114.3.4"	or converting fixed point nu	mbers to floating	point and vice-versa is
uggestedRemedy Use the following description: "This bit indicates if the local PHY	' hardware has EE	E capability. If thi	s bit is zero the lo	ocal	Move the description of t provided.	ix-point format from 114.3.1	to 114.3.4, whe	re Matlab code is
phy will never advertise EEE capa	ability to the link pa				C/ 45 SC 45.2.3.51.1 Ortiz Rojo, David	P31 KDPOF	L 38	# 295
esponse Respon ACCEPT IN PRINCIPLE. See comment #406	se Status C				<i>Comment Type</i> ER Typo in the formula.	Comment Status A		C45
					SuggestedRemedy Replace "log2(100.35)" t	y "log2(10^0.35)".		
					Response ACCEPT IN PRINCIPLE See comment #407	Response Status C		
					C/ 45 SC 45.2.3.52.1 Ortiz Rojo, David	Р 32 КDPOF	L17	# 296
					Comment Type ER Format of this field is not	Comment Status A specified.		C45
				SuggestedRemedy Add the following senten "This field has the same	ce to the description: format than register 3.520.2	13:0."		
					Response ACCEPT.	Response Status C		
YPE: TR/technical required ER/edit					eneral tten C/closed Z/withdrawn	Comm	ent ID 296	Page 54 of 100 15/07/2015 16:2

C/ 114 SC 114.2.2.2 Ortiz Rojo, David	2 P 41 KDPOF	L 2	# 297	C/ 114 SC 114.2.4.1.1 P46 L1 Ortiz Rojo, David KDPOF	# 299				
Comment Type E Missing units in the de SuggestedRemedy				Comment Type TR Comment Status A Sentence "Since the minimum length of an ethernet packet is longer GMII control words (GCTRLs) in a chunk must be contiguous, conse beyond the first will also be contiguous within the PDB.CTRL" is not	quently any CBs exact, as other				
Change "13312," by Response ACCEPT IN PRINCIPL See comment #319	Response Status C			posibilities exist, for example when a packet has error propagation signaled near or the end of the packet, or when there are badly formed short-packets (with less octets). In the current formal description of the PCS encoding when a GMII chunk contair					
C/ 114 SC 114.2.3.4 C/ 114 Drtiz Rojo, David	4 <i>P</i> 43 KDPOF	L 27	# 298	 than one section of contiguous GMII control words, it will generate a PDB.CTRL sign error octets. However this behaviour is not desirable as it might produce interframe s as normal interframe might gets replaced by error octects in this situation. 					
Comment Type E	Comment Status A			SuggestedRemedy					
The sentence "Since the sentence of the senten	he counter is reset for each pa ion to the standard and it woul			To change the 64/65b encoding formal description by the one in the ortiz_gepof_pcsenc_proposal_v1.0.m, that contains the updated ma					
SuggestedRemedy				The proposed modification only differs from the one in the document words are not contiguous in a given GMII chunk. When this happens that are present between GMII control words are replaced by forward	the GMII data octets l error propagation.				
Remove the sentence. Response Response Status C ACCEPT.	Response Status C			The proposed modification is valid as the data octects that are being error propagation belong either to a corrupted ethernet packet or to a ethernet packet (with less than 8 octets). In both cases they can be s forward error propagation control words as GMII clause 35 does not positions within a packet to be kept, it just require that the packet ner identified as erroneous, something the proposed modification guarar modification also guarantees that normal interframe is respected, wi	a badly formed short safely replaced by require that the error eds to be correctly intees. The proposed				
			Appart from this, change paragraph to: " <newline> Since the minimum length of an Ethernet packet is longe GMII control words (GCTRLs) in a chunk of a correct packet must be consequently any CBs beyond the first will also be contiguous within an Ethernet packet contains errors there might be non-contiguous G within a chunk. In this case the data sections between the control wo to an erroneous ethernet packet and are transformed in error codes. chunk is then encoded following the previous description. This can b definition of the encoding in section 114.2.4.1.2."</newline>	e contiguous, the PDB.CTRL. When MII control words rds belong in any cas The resulting GMII					
				Response Response Status C					
				ACCEPT IN PRINCIPLE.					
				Accept new Matlab code as formal definition.					
				Modify paragraph as follows: "Because the minimum length of an Ethernet packet is longer than 7 control samples (GCTRLs) in a chunk of a correct packet must be co					

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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 299

Page 55 of 100 15/07/2015 16:23:13 Consequently, all the CBs beyond the first will also be contiguous within the PDB.CTRL.

When there is non-contiguous GMII control samples within a GMII chunk, the data octets between the control samples in the GMII belong in any case to an erroneous Ethernet packet. In this case, the GMII data samples are replaced by GMII control samples encoding error propagation as a previous step to the PDB.CTRL encoding. The resulting GMII chunk is then encoded following the previous description.

Formal definition of the 64B/65B encoding in 114.2.4.1.2."

	-		
C/ 114 SC 114.2.4.1		L 43	# 300
Ortiz Rojo, David	KDPOF		
Comment Type E Description is not clear	Comment Status A		Р
SuggestedRemedy			
	be the offset" by: of the first PDB in Transmit ansmit Block j by using the f		
Response ACCEPT.	Response Status C		
C/ 114 SC 114.2.4.1	.2 P48	L 5	# 301
Ortiz Rojo, David	KDPOF		
Comment Type TR See my comment 299.	Comment Status A		
SuggestedRemedy Replace formal descrip	tion by content of attached	file ortiz_gepof_pc	senc_proposal_v1.0.m
Response ACCEPT.	Response Status C		
C/ 114 SC 114.2.4.3	P 49	L 42	# 302
Ortiz Rojo, David	KDPOF		
Comment Type E Typo "encpsulation".	Comment Status A		
SuggestedRemedy Replace "encpsulation"	by "encapsulation"		
Response	Response Status C		
ACCEPT			

ACCEPT.

C/ 114	SC	114.2.4.3.2	P51	1	L 36	# 303
Ortiz Rojo,	David		KDPO)F		
Comment T	Гуре	Е	Comment Status	Α		Р
Redun	dant e	xplanation.				

SuggestedRemedy

Could be simplified replacing "Shortening is implemented by prefixing some zero bits (bits with value zero) to the data bits. In particular, in this case 71 zero bits are prefixed to the 1668 data bits" to "Shortening is implemented by prefixing 71 zero bits to the 1668 data bits."

Response Response Status C

ACCEPT IN PRINCIPLE.

Use "information" instead of "data" and indicate zero is value.

"Shortening is implemented by prefixing a sequence of 71 bits with value zero to the 1668 information bits."

C/ 114	SC 114.2.4.1.1	P 47	L26	# 304
Ortiz Rojo,		KDPOF		
Comment	Туре Е	Comment Status A		
Descri	ption is not clear.			

SuggestedRemedy

Replace paragraph by:

"Since the number of information bits in a Transmit Block (705600 bits) is not a multiple of the PDB length, in general PDBs will not be aligned to the start of a Transmit Block Structure. To guarantee that the receiver can correctly synchronize the PCS decoder at the start of every Transmit Block Struture the field PHD.TX.NEXT.PDB.OFFSET of the Physical Header Data of transmit block j encodes the number of bits between the first payload bit of Transmit Block j+1 and the start of the first PDB encoded in Transmit Block j+1 on the receiver is able to align the PCS decoder for the Transmit Block j+1 once"

Response Response Status C

ACCEPT IN PRINCIPLE.

Text is accepted in principle but "Transmit Block Structure" is replaced by "Transmit Block", as it is the term used in the rest of the text.

Needs thousands separator. Gramatical corrections.

Cl 114SC 1144PA0L1 \pm D05Ch 12 Rojo, DavidKDPOFKDPOFCh 12 Rojo, DavidKDPOFKDPOFCh 20 Rojo, DavidKDPOFKDPOFSuggestedRamedyReparate status and the status of the outstanding OAM reseases, status and the status of the outstanding OAM reseasesCh 114SC 1142.3.2P44L24 \pm D07SuggestedRamedyReparate status and the status of the outstanding OAM reseasesCh 114SC 1142.3.2P44L24 \pm D07SuggestedRamedyReparate status bits of the outstanding OAM reseasesCh 114SC 1142.3.2P44L24 \pm D07SuggestedRamedyReparate status bits of the outstanding OAM reseasesCh 114SC 1142.3.2P44L24 \pm D07SuggestedRamedyReparate status bits of the outstanding OAM reseasesCh 114SC 1142.3.2P44L24 \pm D07SuggestedRamedyReparate status bits of the outstanding OAM reseasesCh 114SC 1142.3.2P44L24 \pm D07SuggestedRamedyReparate status bits and the outstanding OAM reseasesCh 114SC 1142.3.2P44L24 \pm D07Reparate if the St in attached documentReparate status bits and the st in Conner Status ShReparate status bits and the st in Conner Status ShReparate status bits and the st in Conner Status ShReparate status bits a			-		-			
Comment Type TR Comment Status A OAM Description of clause 114.4 is not clear, and lacks consistency. Moreover the correspondence of status bits values and the status of the outstanding OAM messages, which is included in this clause, should be included in clause 45, as it is useful for the usage of the OAM channel, but is not needed for the implementation. Comment Type T Comment Status A Suggested/Remedy Replace clause 114.4 by the text in the attached document fortiz gepoid of 5(14, proposal, v1.0.doc)* Response Status C Comment Status A ACCEPT IN PRINCIPLE. Proposed text in attachement solve the technical comments. Contract Type T Comment Status B Comment Type T Editor, use style of 1000BASE-T1 C/45 for description of bits and editorial improvement. Contract Type T Comment Status B Comment Type T Comment Type T Comment Status A Comment Status A Comment Type T Comment Type T Comment Type T Comment Status B P23 L 53 # 306 Contract Type T Comment Type T Comm			L1	# 305			L 24	# 307
1/45 SC 45.2.3.48 P23 L 53 # 306 rtiz Rojo, David KDPOF SC 45.2.3.48 P23 L 53 # 306 ftiz Rojo, David KDPOF SC 45.2.3.48 P23 L 53 # 306 comment Type TR Comment Status A OAM Description of OAM transmit and receive registers lacks nomenclature consistency and also has ambiguities. Subclauses are not well divided in transmit and receive sections. Finally it lacks a table with the correspondence of message control&status bits and the state of all outstanding OAM messages in the channel. OAM C/ 114 SC 114.2.3.1 P42 L4 # 308 Use the content of clause 45 of the attached document named ortiz_gepof_c45_114_proposal_v1.0.docx C Comment Type E Comment Status R "CRC-16 is transmitted in order from S15 to S0" is duplicated. SuggestedRemedy Use the content of clause 45 of the attached document named ortiz_gepof_c45_114_proposal_v1.0.docx Response Status C SuggestedRemedy Remove duplicated sentence. Response Response Status C Response Status C Response Status C Response Status C	omment Type TR Comment Description of clause 114.4 is not correspondence of status bits value which is included in this clause, st usage of the OAM channel, but is usagestedRemedy Replace clause 114.4 by the text i "ortiz_gepof_c45_114_proposal_ve esponse Response ACCEPT IN PRINCIPLE. Proposed text in attachment solve Table describing status bits of the protocol description), as in D1.1, as For every OAM bit discritption, mod decription w/o understand the function	ent Status A clear, and lacks consi ues and the status of t hould be included in ci not needed for the im in the attached docum v1.0.docx" se Status C e the technical comme and not C/45. Also exp ove from C/45 all proto- ction is.	the outstanding lause 45, as it is aplementation. nent ents. essages should planation around pocol staff to C/1	be in 114.4 (same of that table. 14.4. C/45 is just	Comment Type T Description might be 25. SuggestedRemedy To avoid ambiguity it should be scrambled mentioned in the S1 g Response ACCEPT IN PRINCIF Write as: P42: , where the leftmost initialization value of the first bit of the rand formal definition of the	Comment Status A ambiguous. This also applies the should be explicitly mentioned with the initialized value of r0, generation description. Response Status C PLE. t digit corresponds to the initial r[0] is added to the first bit com domized sequence that feeds the e LFSR.	that the first bit o in the same way value of register ing from CRC-16 he BCH encoder.	of the 'clear bit strear that is explicitly element r[0]. The encoder to generate See 114.2.2.1 for th
also has ambiguities. Subclauses are not well divided in transmit and receive sections. Finally it lacks a table with the correspondence of message control&status bits and the state of all outstanding OAM messages in the channel. SuggestedRemedy Use the content of clause 45 of the attached document named ortiz_gepof_c45_114_proposal_v1.0.docx Response Response Status ACCEPT. Response Status C Zept. Response Status	Cl 45 SC 45.2.3.48 Ortiz Rojo, David Comment Type TR Comme	P 23 KDPOF ent Status A	L 53	# <u>306</u> OAM	initialization value of a generate the first bit of 114.2.2.1 for formal d	r[0] is added to the first bit corr of the randomized sequence th lefinition of the LFSR.	ning from the 64B at feeds the PAM	/65B encoder to 116 encoder. See
	also has ambiguities. Subclauses Finally it lacks a table with the con- state of all outstanding OAM mess SuggestedRemedy Use the content of clause 45 of the ortiz_gepof_c45_114_proposal_v Response Response	are not well divided ir respondence of mess sages in the channel. e attached document 1.0.docx	n transmit and re age control&sta	eceive sections.	Ortiz Rojo, David <i>Comment Type</i> E "CRC-16 is transmitte <i>SuggestedRemedy</i> Remove duplicated s <i>Response</i> REJECT.	KDPOF Comment Status R ed in order from S15 to S0" is o entence.		# <u>308</u>

C/ 115 SC 115.3.4 Pérez-Aranda, Rubén	<i>Р</i> 107 КDPOF	L 52	# 309	C/ 45 Pérez-Ara	SC 45.2.3.49. Inda, Rubén	2 P27 KDPO		# 312
Comment Type E Incomplete sentence.	Comment Status A		EEE and PMD interface	Comment Then		Comment Status stream is forwarded t	A to the GMII received in	C45 terface
	om receipt of PMD_RXPWR.r receive function are specified Response Status C		ve until it takes effect in	Response	ice "GMII received	interface" with "GMII Response Status		
ACCEPT.	Response Status C			ACCE				
C/ 115 SC 115.5.3 Pérez-Aranda, Rubén	P 112 KDPOF	L 25	# 310	C/ 45 Pérez-Ara	SC 45.2.3.50 Inda, Rubén	Р 29 КDPO		# 313
Comment Type E Consider rephrasing	Comment Status A		EEE and PMD interface		45-123:	Comment Status		C45
be calculated from the	ER) shall be obtained by meas e measurements of the maximu er (P0) (defined in dBm), as:			Suggester replac Response	ce with: "the state	variable" Response Status	с	
Response	Response Status C			ACCE	EPT.			
ACCEPT IN PRINCIP	LE. ER) shall be obtained by meas	urement in th	e time domain. ER shall	C/ 114 Pérez-Ara	SC 114.1.1 Inda, Rubén	<i>Р</i> 35 КDРО		# 314
be calculated from the minimum optical powe as the integration of w on transmit signals fro transmitter negligible,	e measurements of the maximule or (P0) as defined in 115.3.3, w whole optical PSD along the co om band limitation and possible a specific signal pattern shall rated configuring the PHY in Te	Im optical pow where P1 and mplete spectre AC coupling the generated	wer (P1) and the P0 are measured in mW, um. To make the effects effects of the PMD by the PCS. The signal	opera S <i>uggeste</i> Add b	nay be added an i tions, administratio <i>dRemedy</i> efore ,etc:	on and maintenance.	A ne reliable communica	tion side-chanel:
C/ 115 SC 115.5.4	P 112	L 35	# 311	opera <i>Response</i>	-	on and maintenance Response Status	C	
Pérez-Aranda, Rubén				ACCE		Nesponse Status	0	
Comment Type E Consider change the s	Comment Status R sub-clause title to be agree wit	h defined par	ameter in 115.4.1.					
SuggestedRemedy Average Launch Optic	cal Power (LOP) measuremen	:						
Response REJECT.	Response Status C							
Rejected in favor of co	omment #477							
TYPE: TR/technical requir	ed ER/editorial required GR/	general requir	ed T/technical E/editorial G/g	eneral	Z/withdrawn		Comment ID 314	Page 58 of 100

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

C/ 114 SC 114.2.2 Pérez-Aranda. Rubén	<i>Р</i> 39 КDPOF	L 31	# 315	C/ 114 SC 114.2.2.2 P40 L42 # 318 Pérez-Aranda. Rubén KDPOF
Comment Type E L31: is designed for opti	Comment Status A			Comment Type E Comment Status A data block,
L31: Pilot S2s are transi L32: Pilot S2s are intend				SuggestedRemedy
SuggestedRemedy				Replace with: data sub-block,
Replace L31: is intended				Response Response Status C
•	s transmitted divided in differe ub-blocks are intended to			ACCEPT IN PRINCIPLE.
Response ACCEPT.	Response Status C			payload data sub-block,
				C/ 114 SC 114.2.2.2 P41 L1 # 319
C/ 114 SC 114.2.2.1	P39	L 38	# 316	Pérez-Aranda, Rubén KDPOF
Pérez-Aranda, Rubén	KDPOF			Comment Type E Comment Status A
Comment Type E	Comment Status A ral, M-PAM, being M any inte	anarvalua ia natu	ammanly used in	 * MLS acronym was already introduced * the sequence is binary and should de stated
	on PAM2, PAM5, PAM16, (se		continionity used in	Suggested Remedy
SuggestedRemedy				Replace with:
Replace in all the docun 2-PAM with PAM2	nent:			"A MLS generator is used to generate a binary pseudo-random sequence of 13312 bi length, which"
256-PAM with PAM256 16-PAM with PAM16 etc.				Response Response Status C ACCEPT IN PRINCIPLE.
Response	Response Status C			(five digits needs a thousands separator)
100FDT				
ACCEPT.				"A MLS generator is used to generate a binary pseudo-random sequence of 13 312 b length, which"
	 D40	1 16	# 217	
C/ 114 SC 114.2.2.1	Р 40 КDPOF	L16	# 317	
C/ 114 SC 114.2.2.1 Pérez-Aranda, Rubén	KDPOF	L16	# 317	C/ 114 SC 114.2.2.2 P41 L5 # 320
2/ 114 SC 114.2.2.1 Vérez-Aranda, Rubén Comment Type E L16: no parenthesis afte	KDPOF Comment Status A er binary	L16	# <u>317</u>	Pérez-Aranda, Rubén KDPOF Comment Type E Comment Status A
C/ 114 SC 114.2.2.1 Pérez-Aranda, Rubén Comment Type E L16: no parenthesis after L21: r[0] through r[24] is	KDPOF Comment Status A er binary	<i>L</i> 16	# <u>317</u>	Pérez-Aranda, Rubén KDPOF Comment Type E Comment Status Figure 114-8, which is the meaning of x and + in the right side of figure?
C/ 114 SC 114.2.2.1 Pérez-Aranda, Rubén Comment Type E L16: no parenthesis afte L21: r[0] through r[24] is	KDPOF <i>Comment Status</i> A er binary s assumed efore comma	<i>L</i> 16	# <u>317</u>	Pérez-Aranda, Rubén KDPOF Comment Type E Comment Status A
C/ 114 SC 114.2.2.1 Pérez-Aranda, Rubén Comment Type E L16: no parenthesis afte L21: r[0] through r[24] is SuggestedRemedy L16: add parenthesis be	KDPOF <i>Comment Status</i> A er binary s assumed efore comma	<i>L</i> 16	# <u>317</u>	Pérez-Aranda, Rubén KDPOF <i>Comment Type</i> E <i>Comment Status</i> A Figure 114-8, which is the meaning of x and + in the right side of figure? <i>SuggestedRemedy</i>

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 Z/withdrawn SORT ORDER: Comment ID

Cl 114 SC 114.2.3.3 Pérez-Aranda, Rubén	Р 42 КDPOF	L 51	# 321	C/ 114 SC 114.2.4.1.1 P 44 L 37 # 324 Pérez-Aranda, Rubén KDPOF 4
Comment Type E Wrong equation, no pare	Comment Status A enthesis in g(i)			Comment Type E Comment Status A is prepended to the eight consecutive samples
SuggestedRemedy Add parenthesis				SuggestedRemedy replace with:
Response ACCEPT.	Response Status C			is prepended to eight consecutive samples Response Response Status C ACCEPT IN PRINCIPLE.
C/ 114 SC 114.2.2.1	P 39	L 41	# 322	See comment #135
Pérez-Aranda, Rubén	KDPOF			CI 114 SC 114.2.4.1.1 P47 L38 # 325
Comment Type E	Comment Status A			Pérez-Aranda, Rubén KDPOF
Bad reference to 114.2.4 Also in P41, L2 and P43				Comment Type E Comment Status A In Figure 114-17 the field name of PHD is not complete
SuggestedRemedy Replace with: 114.2.4.3.	3			SuggestedRemedy
Response	Response Status C			Replace with: TX.NEXT.PDB.OFFSET
ACCEPT.				Response Response Status C
C/ 114 SC 114.2.4 Pérez-Aranda, Rubén	<i>Р</i> 44 КDРОБ	L 6	# 323	
Comment Type E	Comment Status A			C/ 114 SC 114.2.4.3 P49 L53 # 326 Pérez-Aranda. Rubén KDPOF
L6: typo: postfixd				
<i>.</i>				Comment Type E Comment Status A
Figure 114-13: muliiplex	ker			16-QAM term, and in general X-QAM, is not common to indicate M-ary QAM modulation in 802.3. It is more common QAM16.
SuggestedRemedy				SuggestedRemedy
L6: replace with postfixe Figure 114-13: replace v				Replace in all the document X-QAM by QAMX.
Response ACCEPT.	Response Status C			Response Response Status C ACCEPT.

C/ 114 SC 114.2.4.3. Pérez-Aranda, Rubén	3 <i>P</i> 53 KDPOF	L 1	# 327	C/ 114 SC 114.2.4.4 Pérez-Aranda, Rubén	<i>Р</i> 60 КDPOF	L 22	# 330
	Comment Status A entence is the same information	ion already prov	ided in previous	Comment Type E Comment Figure 114-32 can be improved	Status A		
paragraph. SuggestedRemedy Remove sentence Response	Response Status C			SuggestedRemedy Eliminate index m from u and y, sinc Eliminate Fs, since it is not necessar Eliminate [-2^k, 2^k) from modulo bo Eliminate extra parenthesis in the 1s	ry and complica x.	te the figure.	duce confusion.
ACCEPT.				Response Response	Status C		
C/ 114 SC 114.2.4.3		L 22	# 328	ACCEPT.			
Pérez-Aranda, Rubén	KDPOF			C/ 114 SC 114.2.4.4	P 59	L 43	# 331
Comment Type E	Comment Status A			Pérez-Aranda, Rubén	KDPOF		
no space before Lambo	a_1_t			Comment Type E Comment	Status A		
SuggestedRemedy add space				Voronoi's region pedantic term no explanation may be improved.	t needed for the	e functionality des	cription and
Response	Response Status C			SuggestedRemedy			
ACCEPT.				Replace sentence with: "Modulo operation reduces the scrar			
C/ 114 SC 114.2.4.3 Pérez-Aranda, Rubén	6 <i>P</i> 58 KDPOF	L16	# 329	Modulo operation is compatible with defined as.	the subsequent	t Tomlinson-Hara	shima precoder and is
Comment Type E	Comment Status A			Response Response	Status C		
	eliminated since it was alrea	dy introduced be	fore	ACCEPT IN PRINCIPLE.			
SuggestedRemedy Eliminate psi equation a	and rewording to indicate valu	le of that.		"Modulo operation reduces the scrar is compatible with the subsequent To defined in <cross reference=""> "</cross>	,	0	
Response ACCEPT.	Response Status C			Convert modulo definition in P47, L5 point.	1 to equation w	ith number and c	ross reference to that

335 e PHY) and the ely."
ously. The prefix REMPHD refers to
336
<i>"</i> 330
correct one) 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 Z/withdrawn SORT ORDER: Comment ID

Cl 114 SC Pérez-Aranda, Ru	114.3.2.1.4 ubén	P68 KDPOF	L12	# 337	C/ 114 S Pérez-Aranda	SC 114.3.2.2 Rubén	<i>Р72</i> КDPOF	L 30	# 340
Comment Type "(LOCPHD.R		<i>Comment Status</i> A TUS OK)" assignment syn	nbol is not preser	nt.	<i>Comment Typ</i> Colloquial		Comment Status R		THE
SuggestedReme Replace with "(LOCPHD.R Response	:	TUS <= OK)" <i>Response Status</i> C			filters (FFI	/ith: ver has to im F and FBF). 1	plement equalizer estimation This estimation may use the Ily in order to follow the char	received pilot S2	sub-blocks and is to
ACCEPT.					Response	•	Response Status C		
	114.3.2.1.5		L 41	# 338	REJECT.				
Pérez-Aranda, Ru <i>Comment Type</i>	ubén E	KDPOF Comment Status A					ved to subclause 114.3.2.2 anda_GEPOF_5_0715"	are addressed in	text proposed in
twice "start" a SuggestedRemed eliminate one	dy	the line			Pérez-Aranda		P 72 KDPOF Comment Status R	L 37	# <u>341</u> THE
Response ACCEPT.		Response Status C				l" term is beir	ng used to define SETID.		זחו
C/ 114 SC	114.3.2.1.5	P 71	L 39	# 339	SuggestedRei	•			
Pérez-Aranda, Ru	ubén	KDPOF			L37, Repl	-			
Comment Type A cross refer	E ence to 114	Comment Status A .3.2.2.2 may be added, bed	cause the THP R	EQ state diagram has	"field LOC it"	PHD.RX.RE	Q.THP.SETID of transmitted	PHD blocks to u	nambiguously identify
not been intro Eliminiate ad	oduced yet.	·		C C	L43, Repl "The local		vuse the same set of FBF co	pefficients to equi	alize the received PHS
SuggestedReme rcvr thp lock	•						num-Likelihood Sequence E		
		REQ state diagram (see 11	14.3.2.2.2) to indi	cate	Response		Response Status C		
Response		Response Status C			REJECT.				
ACCEPT.							ved to subclause 114.3.2.2 anda_GEPOF_5_0715"	are addressed in	text proposed in
					+ it is up t pilots S1/3 + this sub received r have requ	o the impleme S2 to impleme clause is dev eliable by bot ired to impler	nate sentence because: enter how is equalized the P ent whatever oted to adaptive THP protoc h link partners. To be able to nent PHS equalization witho elevant to guarantee interope	ol, therefore it is o run THP protoc ut coordination w	assumed the PHD is ol, the PHY receivers

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 Z/withdrawn SORT ORDER: Comment ID

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<i>Cl</i> 114 SC Pérez-Aranda, R	114.3.2.2.1 ubén	Р 73 КDPOF	L 21	# 342		C/ 30 Pérez-Arai	SC 30.3.2.1 nda, Rubén	.2 P21 KDPOF	L 7	# 345
Comment Type The sentenc before. Incor		Comment Status A I and does not provide any shall"	nformation not		THP		C" does not prov	Comment Status A vide characteristic informa de meaning. Is it THP?	tion about used mo	C. odulation.
SuggestedReme	•					Same	comment for lir	ie 13.		
Eliminate se	ntence (L21	and L22).				Suggested	Remedy			
Response ACCEPT IN	PRINCIPLE.	Response Status C				Replac	ce line with:	114 1000 Mb/s PAM16-TI	ΗP	
		d to subclause 114.3.2.2 ar	e addressed ir	n text proposed in		Same	remedy for line	s 7 and 13.		
attached file	"perezarand	a_GEPOF_5_0715"				Response		Response Status C		
C/ 114 SC	114.3.3	P 79	L11	# 343		ACCE	PT.			
Pérez-Aranda, R	ubén	KDPOF								
Comment Type	ER	Comment Status A								
Eliminate 11 Move 114.3. Response		Response Status C								
	S section just	after 114.2.1.New 114.2.2. ection in needed.								
C/ 114 SC	114.5.3	P 91	L 4	# 344						
Pérez-Aranda, R	ubén	KDPOF								
<i>Comment Type</i> PHY type sh Also for 114.		Comment Status A BASE-H in the title of sub-o	clause.	EEE and PMD inter	face					
SuggestedReme Replace 100		by 1000BASE-H, in both ca	ses							
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 Z/withdrawn SORT ORDER: Comment ID

C/ 45 SC 45.2.3 Pérez-Aranda, Rubén	<i>Р</i> 23 КDPOF	L 29	# 346	C/ 115 Pérez-Ara	SC 115.3.1 nda, Rubén	Р 106 КDPOF	L 6	# 347
not provide meaning ab registers are descriptive	Comment Status A e 45-119 do not follow a sing out the functionality, howeve e. ubclauses referred in Table.	er the names used	d for the rest of	primiti S <i>uggeste</i> c	block diagram of ve. dRemedy	Comment Status A figure 115-1 has to include n gram of figure 115-1 to includ		
transmit registers and C Addresses should be as	AM receive registers should ssigned to registers accordin CS control and status regist	I be in separated	sub-clauses. e of registers for	primiti <i>Response</i> ACCE	•	PMD Receiver box. Response Status C		
SuggestedRemedy Replace register addres	sees and names.			C/ 115 Pérez-Ara	SC 115.3.5. 1 nda, Rubén	Р 109 КDPOF	L15	# 348
3.500: 1000BAS 3.501: 1000BAS 3.502: 1000BAS 3.503: 1000BAS 3.504: 1000BAS 3.505: 1000BAS 3.505: 1000BAS 3.505: 1000BAS 3.506 though 3.513: 100	SE-H PCS control SE-H PCS status 1 SE-H PCS status 2 SE-H PCS status 3 SE-H PCS status 4 SE-H OAM transmit control 00BASE-H OAM transmit me	essage		<i>Suggested</i> P109, power Indica	s of power_on va <i>Remedy</i> L15, Replace wi _on tes the power sta	Comment Status A ariable do not match with state th: ate of the PMD. The state dia	Ū	
	SE-H OAM receive control 00BASE-H OAM receive me <i>Response Status</i> C	ssage		Value	E branch. s: TRUE: power LSE: the PMD is	r to PMD device is provided a power off.	and circuit is o	perative.
ACCEPT IN PRINCIPLE	,	proposed.		Response ACCE		Response Status C		
Addresses not be chang	ged. It is not critical for the ir	nplementation.						
OAM registers are corre	ected with suggested remedy	y of comment #30	06, if accepted.					

Cross-references in table to be corrected

C/ 115 SC 115.5.1 Pérez-Aranda, Rubén	<i>Р</i> 111 КDPOF	L 39	# 349	C/ 45 Pérez-Ara	SC 45.2 nda, Rubén	Р 2 ! КDPC	-	L 54	# 350	
	Comment Status A reference to TIA standard. be provided because it is alrea	dy included in ref	ferred std.		ral comment to s	Comment Status several tables, in the fo which is not correct.		indicated:		C45
SuggestedRemedy P111, L39, Replace v "TIA-455-127-A".	vith:			Table	45-121 45-123 45-124					
Eliminate from P111,	L45 to P112, L2.			Suggestee R/W =	dRemedy Read/Write					
P112, L6, Replace wi "TIA-455-127-A".	th:			Response ACCE		Response Status	С			
Eliminate from P112, Response ACCEPT IN PRINCIF	Response Status C			Gene	ral to all the com		BASE-H PHY.			
Reject references in f	avor of comment #440.					nments of C/45: just de staff behind the bits ar	•	ts, no protocol	I. Add pointers	to
Accept eliminating the 3 ed2.0 2010-3.	e equations since they are alre	ady accurately d	efined in IEC 61280-1-		and EEE enable d of only explair	e bits only after PMA re ning it in C/45.	eset: It should	be included in	ι the state diag	rams

C/ 114 SC 114.1.4	Р 36 КDPOF	L 38	# 351	C/ 114 SC 114.2	2.3.1 <i>P</i> 42 KDPOF	L1	# 353
Pérez-Aranda, Rubén				Pérez-Aranda, Rubén			
are fiber optics transm	Comment Status A e 114-2 refers to transmitter and nitter and receiver. Because on that is the transmitter and recei	ly 1000BASE-H i	s described (PCS and	* Repeated senter	c Comment Status R s not disconnected to generate ou nee from the first full stop.	tput.	
Moreover, the terms t PCS also includes a t	ransmitter and receiver are vag ransmitter and a receiver.	jue terms, becau			eplace with: have been serially processed, the ing) and the 16 stored values are t		exer is connected to
0	nected to TX, RX to RX. Wrong	l.			ing) and the To stoled values are t	INE CRC-10.	
SuggestedRemedy	.			* Eliminate lines 2	to 4 from first full stop of line 2.		
partner's FO receiver	full stop: abling connects the local fiber o , and the link partner's FO trans r and receiver compose the PM	mitter to the loca	I FO receiver. The	Response REJECT. See comment #19	Response Status C		
	I suggest to use FO TX or PME ver.	TX instead of T	ransmitter, and FO RX	Cl 114 SC 114.2 Pérez-Aranda, Rubén	KDPOF	L 39	# 354
Response ACCEPT IN PRINCIF	Response Status C PLE.			Comment Type ER "That's why" This sentence sho	Comment Status A uld be descriptive not justificatory.		
Reject modifications i	n text.			SuggestedRemedy Eliminate.			
Only correct the label Eliminate "PHY" in 10				Response ACCEPT.	Response Status C		
C/ 114 SC 114.2.1 Pérez-Aranda, Rubén	Р 38 КDPOF	L 3 7	# 352	AGOLI I.			
It is true that 115.3.3	Comment Status A should be replaced by some re defines how the PCS to PMD s ation for RH PMD, which may n	ignal is transform					
On the other hand, 11	15 reference is not really neede	d to understand a	zero value.				
SuggestedRemedy							
Reference to subclau	se 114.6.1 that defines the sigr	als from PCS to	PMD.				
Response	Response Status C						

ACCEPT.

C/ 114 SC 114.2.4.3.3 P55 L 32 # 355 Pérez-Aranda, Rubén KDPOF Image: Comparison of the second secon	C/ 114 SC 114.3.2.1.3 P66 L 23 # 357 Pérez-Aranda, Rubén KDPOF KDPOF
Comment Type ER Comment Status A L32: This sentence together with equation is already introduced in first level mapping, therefore provide redundant information not needed.	Comment Type ER Comment Status R "Let us note" is wrong wording. SuggestedRemedy
L39: "That's why"	Eliminate "Let us note that" and start with capital "The value of"
SuggestedRemedy L32: Eliminate. L38: Replace by "Therefore"	Response Response Status C REJECT.
Response Response Status C	Rejected in favor of comment #233.
ACCEPT IN PRINCIPLE.	C/ 114 SC 114.3.2.1.5 P71 L17 # 358 Pérez-Aranda. Rubén KDPOF
Replace from L29 to L39, removing the equation: "In this case, kQAM = 3 is odd, kI = 2 and kQ = 1, so the upper branch receives more bits than the lower one. In particular, the first substream includes bits b0, b2, b3, b5, b6, b1479, b1481 whereas the second substream includes bits b1, b4, b7, b1480.	Comment Type ER Comment Status A Ofuscated description of loc_rcvr_hdr_lock, rem_rcvr_hdr_lock and rcvr_hdr_lock. SuggestedRemedy
The processing branches for the I and Q components are not equal. The LSB of the binary"	loc_rcvr_hdr_lock Variable set by the local PHD reception monitor state diagram to indicate the reliability of PHD reception. Values:OK: local PHD reception is reliable NOT_OK: local PHD reception is unreliable
Pérez-Aranda, Rubén KDPOF Comment Type ER Comment Status A Figure 114-29 is not consistent with nomenclature used for mod operation in the text SuggestedRemedy Replace mod 2^cceil(psi) by "mod(X, 2^cceil(psi))" Response Response Status C ACCEPT. C C	rem_rcvr_hdr_lock Variable set by the remote PHD reception monitor state diagram to indicate the reliability o PHD reception in the remote PHY (link partner). Values:OK: PHD reception is reliable by the link partner NOT_OK: PHD reception is unreliable by the link partner. rcvr_hdr_lock Variable set by the PHD monitor state diagram to indicate the reliability of both the PHD transmission from local to remote PHY and the PHD reception from remote to local PHY. Values:OK: PHD transmission and reception are reliable NOT_OK: PHD transmission or reception are unreliable
	Response Response Status C
	ACCEPT IN PRINCIPLE.
	rem_rcvr_hdr_lock Variable set by the remote PHD reception monitor state diagram to indicate the reliability o PHD reception in the remote PHY (link partner). Values:OK: link partner PHD reception is reliable NOT_OK: link partner PHD reception is unreliable

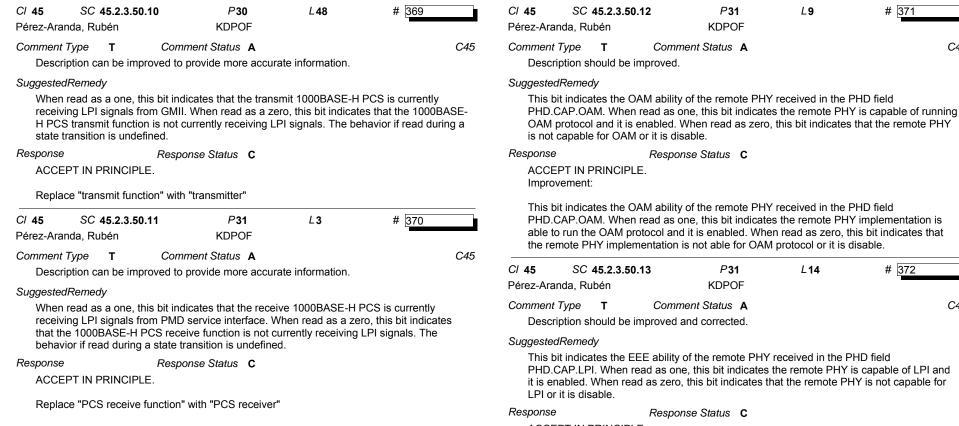
Comment ID 358

C/ 114 SC 114.3.2.1.5 P 71 L 45 # 359 Pérez-Aranda, Rubén KDPOF	C/ 114 SC 114.5 P87 L26 # 361 Pérez-Aranda, Rubén KDPOF
Comment Type ER Comment Status A PCS encoder/decoder are not really defined. The correct term is 64B/65B enc/decoder.	Comment Type T Comment Status A EEE and PMD interface No fully accurate description.
SuggestedRemedy rx_gmii_enable Variable set by the PHY RX control state diagram to connect or disconnect the 64B/65B decoder to the GMII RX; this connection is only enabled when a bidirectional link is established Values:TRUE: 64B/65B decoder is connected to GMII RX FALSE: 64B/65B decoder is not connected to GMII RX tx_gmii_enable Variable set by the PHY TX control state diagram to connect or disconnect the 64B/65B	SuggestedRemedy Replace with: "Each PHY that supports EEE and where EEE is enabled shall advertise its capability when it is connected" Response Response Status C ACCEPT IN PRINCIPLE. Each PHY shall advertise its EEE capability to the link partner in the field PHD.CAP.LPI as one (see Table 114–2) when the local PHY implements EEE and it is enabled (see <ref td="" to<=""></ref>
encoder to the GMII TX; this connection is only enabled when bidirectional link is established Values:TRUE: 64B/65B encoder is connected to GMII TX FALSE: 64B/65B encoder is not connected to GMII TX (normal interframe are encoded in trasmitted PDBs) Response Response Status C ACCEPT.	register>) General to LPI: pcs_rx and pcs_tx state variabes has to be explained when LPI transmit and receive operation are defined. Inidicate better conditions for generation of LPI primitives. Better wording to explain "no optical power", "minimal". C/ 30 SC P21 L22 # 362
C/ 114 SC 114.3.2.2.3 P77 L1 # 360 Pérez-Aranda, Rubén KDPOF	 Pérez-Aranda, Rubén KDPOF Comment Type T Comment Status A C3 As in other PHYs defined in 802.3, mapping to enumerated aMediaAvailable managed
Comment Type T Comment Status A The Wrong: OF the link partner. The adaptibe THP REQ state diagram requests TO the link partner. Using OF, the sentence can be interpreted as the state diagram receives a request from the link partner. However, this state diagram is the one that performs the requests for changing THP coefs. The optimized optized optized optized optimized optimized optized optimized optized	P object should be provided for 1000BASE-H. SuggestedRemedy Add: 30.5.1.1.4 aMediaAvailable
SuggestedRemedy Replace "of" with "to"	BEHAVIOUR DEFINED AS: For 1000BASE-H, a link_status of OK maps to the enumeration "availablelink". link_status
Response Response Status C ACCEPT IN PRINCIPLE.	of FAIL maps to enumeration "not availablelink" <i>Response Response Status</i> C
All the comments received to subclause 114.3.2.2 are addressed in text proposed in attached file "perezaranda_GEPOF_5_0715"	ACCEPT.

Cl 45 Pérez-Aran	SC 45.2.3.50 ida, Rubén	<i>Р</i> 29 КDPOF	L 36	# 363		<i>Cl</i> 45 Pérez-Ara	SC 45.2.3.50 Inda, Rubén	.7	Р 30 КDPOF	L 34	# 366	
Comment Table 4	Гуре Т 45-123:	Comment Status A			C45	Comment Incorr	<i>Type</i> T ect reference.	Comment	Status A			C45
	6 and 37: Incorre may be improve					Suggestee	dRemedy ice with the corero	rt one: 114 3 (2 2 3			
Suggested	-					Response						
L37: 0=	Tx PCS is currer Tx PCS is not cu	ntly receiving LPI urrently receiveing LPI urrently receiving LPI				ACCE		Response	P30	L38	# 367	
Response		Response Status C					inda. Rubén	.0	KDPOF	L 30	# 367	
ACCE	PT.						,	Commont				04
						Comment	<i>Type</i> T iption can be imp	Comment		ata information		C45
CI 45	SC 45.2.3.50.		L23	# 364				loved to provi				
Pérez-Aran	da, Rubén	KDPOF				Suggester	-		- 414 41 4			1
Comment T	Гуре Т	Comment Status A			C45		read as a one, th gnaling from GMI					
		termined by an state diagran	n and it should be	e reflected in the		a zero	, this bit indicates	s that the 1000	0BASE-H PCS	transmit function	has not received	d LPI
descrip						signal	ling. This bit shall	be implement	ted with latchin	g high behavior.		
Suggested						signal Response	0	be implement		g high behavior.		
Suggested Replac This bi	Remedy e with: t indicates the val	lue of the state variable rem nonitor state diagram.	_rcvr_hdr_lock as	s determined by th	ne	Response ACCE	EPT IN PRINCIPL	Response E.	Status C	g high behavior.		
Suggested Replac This bi	Remedy e with: t indicates the val	nonitor state diagram.	_rcvr_hdr_lock as	s determined by th	ne	Response ACCE Repla	EPT IN PRINCIPL	Response E. ction" with "tra	Status C ansmitter"			
Suggested Replac This bir remote	Remedy e with: t indicates the val PHD reception n		_rcvr_hdr_lock as	s determined by th	ne	Response ACCE Repla C/ 45	EPT IN PRINCIPL sce "transmit fund SC 45.2.3.50	Response E. ction" with "tra	Status C ansmitter" P 30	g high behavior.	# <u>368</u>	
Suggested Replac This bi remote Response	Remedy e with: t indicates the val PHD reception n PT.	nonitor state diagram. Response Status C			ne	Response ACCE Repla C/ 45 Pérez-Ara	EPT IN PRINCIPL Isce "transmit fund SC 45.2.3.50 Inda, Rubén	Response E. ction" with "tra	Status C ansmitter"		# 368	
Suggested Replac This bi remote Response ACCEF Cl 45	Remedy e with: t indicates the val PHD reception n PT. SC 45.2.3.50.6	nonitor state diagram. Response Status C 6 P30	_rcvr_hdr_lock as	s determined by th # <u>365</u>	ne	Response ACCE Repla Cl 45 Pérez-Ara Comment	EPT IN PRINCIPL sce "transmit fund SC 45.2.3.50 Inda, Rubén <i>Type</i> T	Response E. ction" with "tra .9 Comment	Status C ansmitter" P30 KDPOF Status A	L43		
Suggested Replac This bi remote Response	Remedy e with: t indicates the val PHD reception n PT. SC 45.2.3.50.6	nonitor state diagram. Response Status C				Response ACCE Repla C/ 45 Pérez-Ara Comment Descr	EPT IN PRINCIPL sce "transmit fund SC 45.2.3.50 Inda, Rubén <i>Type</i> T iption can be imp	Response E. ction" with "tra .9 Comment roved to provi	Status C ansmitter" P30 KDPOF Status A ide more accura	L 43	n addition is not c	correct
Suggested Replac This bi remote Response ACCEF Cl 45 Pérez-Aran Comment	Remedy e with: t indicates the val PHD reception n PT. SC 45.2.3.50.6 da, Rubén Type T	nonitor state diagram. Response Status C 6 P30			ne 	Response ACCE Repla C/ 45 Pérez-Ara <i>Comment</i> Descr becau	EPT IN PRINCIPL sce "transmit fund SC 45.2.3.50 Inda, Rubén <i>Type</i> T	Response E. ction" with "tra .9 Comment roved to provi	Status C ansmitter" P30 KDPOF Status A ide more accura	L 43	n addition is not c	correct
Suggested Replac This bi remote Response ACCEF Cl 45 Pérez-Aran Comment Incorre	Remedy e with: t indicates the val PHD reception n PT. SC 45.2.3.50.6 da, Rubén Type T ct state diagram	nonitor state diagram. <i>Response Status</i> C 6 <i>P</i> 30 KDPOF				Response ACCE Repla Cl 45 Pérez-Ara Comment Descr becau servic Suggested	EPT IN PRINCIPL SC 45.2.3.50 Inda, Rubén <i>Type</i> T iption can be imp ise the PCS recei ise interface. dRemedy	Response E. ction" with "tra .9 Comment roved to provi ve function do	Status C ansmitter" P30 KDPOF Status A ide more accurs	L43 ate information. In LPI signals from	n addition is not o GMII, but from P	correct PMD
Suggested Replac This bi remote Response ACCEF CI 45 Pérez-Aran Comment Incorre Suggested	Remedy e with: t indicates the val PHD reception n PT. SC 45.2.3.50.6 da, Rubén Type T ct state diagram Remedy	nonitor state diagram. <i>Response Status</i> C 6 <i>P</i> 30 KDPOF				Response ACCE Repla Cl 45 Pérez-Ara Comment Descr becau servic Suggested When	EPT IN PRINCIPL SC 45.2.3.50 Inda, Rubén <i>Type</i> T Tiption can be imp use the PCS receive interface. dRemedy read as a one, th	Response E. ction" with "tra .9 Comment roved to provi ve function do	Status C ansmitter" P30 KDPOF Status A ide more accur bes not receive	L43 ate information. In LPI signals from ve 1000BASE-H	n addition is not o GMII, but from P PCS has receive	ed LPI
Suggested Replac This bi remote Response ACCEF CI 45 Pérez-Aran Comment Incorre Suggested Replac This bi	Remedy e with: t indicates the val PHD reception n PT. SC 45.2.3.50.6 da, Rubén Type T ct state diagram Remedy e with:	nonitor state diagram. <i>Response Status</i> C 6 <i>P</i> 30 KDPOF <i>Comment Status</i> A lue of the state variable rcvr		# <u>365</u>	C45	Response ACCE Repla Cl 45 Pérez-Ara Comment Descr becau servic Suggestee When signal When	EPT IN PRINCIPL SC 45.2.3.50 Inda, Rubén <i>Type</i> T iption can be imp ise the PCS recei ise interface. dRemedy	Response E. ction" with "tra .9 Comment roved to provi ve function do his bit indicate rvice interface his bit indicate	Status C ansmitter" P30 KDPOF Status A ide more accurate bes not receive s that the receive	L43 ate information. In LPI signals from ve 1000BASE-H mes since the rep DBASE-H PCS re	n addition is not o GMII, but from P PCS has receive gister was last receive function ha	ed LPI ad.
Suggested Replac This bi remote Response ACCEF CI 45 Pérez-Aran Comment Incorre Suggested Replac This bi	Remedy e with: t indicates the val PHD reception n PT. SC 45.2.3.50.6 da, Rubén Type T ct state diagram Remedy e with: t indicates the val	nonitor state diagram. <i>Response Status</i> C 6 <i>P</i> 30 KDPOF <i>Comment Status</i> A lue of the state variable rcvr diagram.		# <u>365</u>	C45	Response ACCE Repla Cl 45 Pérez-Ara Comment Descr becau servic Suggestee When signal When	EPT IN PRINCIPL SC 45.2.3.50 Inda, Rubén <i>Type</i> T iption can be imp ise the PCS recei- ise interface. <i>dRemedy</i> read as a one, the ing from PMD set in read as a zero, the read as a zero, the treat LPI signaling.	Response E. ction" with "tra .9 Comment roved to provi ve function do his bit indicate rvice interface his bit indicate	Status C ansmitter" P30 KDPOF Status A ide more accur- bes not receive s that the recei e one or more ti es that the 1000 be implemente	L43 ate information. In LPI signals from ve 1000BASE-H mes since the rep DBASE-H PCS re	n addition is not o GMII, but from P PCS has receive gister was last receive function ha	ed LPI ad.
Suggested Replac This bi remote Response ACCEF Cl 45 Pérez-Aran Comment Incorre Suggested Replac This bi recepti	Remedy e with: t indicates the val PHD reception n PT. SC 45.2.3.50.6 da, Rubén Type T ct state diagram Remedy e with: t indicates the val on monitor state of	nonitor state diagram. <i>Response Status</i> C 6 <i>P</i> 30 KDPOF <i>Comment Status</i> A lue of the state variable rcvr		# <u>365</u>	C45	Response ACCE Repla C/ 45 Pérez-Ara Comment Descr becau servic Suggested When signal When receiv Response	EPT IN PRINCIPL SC 45.2.3.50 Inda, Rubén <i>Type</i> T iption can be imp ise the PCS recei- ise interface. <i>dRemedy</i> read as a one, the ing from PMD set in read as a zero, the read as a zero, the treat LPI signaling.	Response E. ction" with "tra .9 Comment roved to provi ve function do his bit indicate rivice interface his bit indicate This bit shall Response	Status C ansmitter" P30 KDPOF Status A ide more accur- bes not receive s that the recei e one or more ti es that the 1000 be implemente	L43 ate information. In LPI signals from ve 1000BASE-H mes since the rep DBASE-H PCS re	n addition is not o GMII, but from P PCS has receive gister was last receive function ha	MD ed LPI ad.
Suggested Replac This bi remote Response ACCEF Cl 45 Pérez-Aran Comment Incorre Suggested Replac This bi recepti Response	Remedy e with: t indicates the val PHD reception n PT. SC 45.2.3.50.6 da, Rubén Type T ct state diagram Remedy e with: t indicates the val on monitor state of	nonitor state diagram. <i>Response Status</i> C 6 <i>P</i> 30 KDPOF <i>Comment Status</i> A lue of the state variable rcvr diagram.		# <u>365</u>	C45	Response ACCE Repla Cl 45 Pérez-Ara Comment Descr becau servic Suggestee When signal When receiv Response ACCE	EPT IN PRINCIPL SC 45.2.3.50 Inda, Rubén <i>Type</i> T ription can be imp ise the PCS receive interface. <i>dRemedy</i> read as a one, the ing from PMD set read as a zero, to read as a zero, to read LPI signaling.	Response E. ction" with "tra .9 Comment roved to provi ve function do his bit indicate rvice interface his bit indicate This bit shall Response E.	Status C ansmitter" P30 KDPOF Status A ide more accur- bes not receive s that the recei e one or more ti es that the 1000 be implemente Status C	L43 ate information. In LPI signals from ve 1000BASE-H mes since the rep DBASE-H PCS re d with latching his	n addition is not o GMII, but from P PCS has receive gister was last receive function ha	ed LPI ad.

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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 368



ACCEPT IN PRINCIPLE.

Improve as:

This bit indicates the EEE ability of the remote PHY received in the PHD field PHD.CAP.LPI. When read as one, this bit indicates the remote PHY implements EEE and it is enabled. When read as zero, this bit indicates that the remote PHY does not implement EEE or it is disable.

C45

C45

Cl 45 SC 45.2.3.53 Pérez-Aranda, Rubén	Р 32 КDPOF	L 24	# 373		C/ 114 SC 114.2.4.3 Pérez-Aranda, Rubén	Р 50 КDPOF	L 1	# 375
Comment Type T Comment Status A C45 Description of 3.522.15 not correct when value 1. C45 C45					Comment Type T Comment Status A " same number of symbols per two dimensions."			
BER test mode counter	reset (3.522.15) is SC (Self-	clearing).			Sentence is not complete.			
BER test mode counter (3.521.14:0) is NR (Non Roll-over) and shoud be indicated. SuggestedRemedy					SuggestedRemedy Improve sentence like: " same number of symbols per two dimensions per codeword."			
Line 26, replace with: 1 = reset the BER test mode counter 3.522.14:0.				Response Resp ACCEPT.	oonse Status C			
Add SC = Self-clearing Add NR to last column	for the first row of table 45-12 to foot note a of Table 45-12 for the last row of table 45-12 r to foot note a of Table 45-12	5. 6.			Cl 114 SC 114.3.1 Pérez-Aranda, Rubén Comment Type T Coi	P 61 KDPOF mment Status A	L51	# [376
Response	ponse Response Status C				Description is not technically accurate			
ACCEPT.					SuggestedRemedy			
C/ 45 SC 45.2.3.53 Pérez-Aranda, Rubén	1 <i>P</i> 32 KDPOF	L 35	# 374		PHD.CAP.* fields inform about the capability of the local PHY to use optional features. In particular, PHD.CAP.LPI is used by the PHY to advertise Energy-Efficient Ethernet (EEE) is supported and enable, whereas PHD.CAP.OAM signals that the PHY supports and has provide a support of the capability to advertise and balance.			
Comment Type T Comment Status A C45 Description may be improved and overflow behaviour should be indicated. C45					enabled the capability to run the OAM (Operations, Administration and Management) message exchange protocol. PHD.OAM.* fields are reserved for the exchange of OAM messages itself.			
SuggestedRemedy					Response Res	oonse Status C		
	counter that counts the numb				ACCEPT IN PRINCIPLE.			
output of the binary descrambler, when the PHY receiver is operating in test mode 1. These bits shall be reset to all zeroes when the PCS receive function enters test mode 1 by					Modify as:			

"PHD.CAP.* fields indicate if the local PHY is using optional features. In particular, PHD.CAP.LPI is used by the PHY to advertise Energy-Efficient Ethernet (EEE) is supported by implementation and enabled, and the field PHD.CAP.OAM signals that the PHY implements the capability to run the OAM (Operations, Administration and Management) message exchange protocol and it is enabled. PHD.OAM.* fields are reserved for the exchange of OAM messages itself."

indication of the link partner (see 114.8.1) or when reset is instructed by writting one to

Response Status C

Replace "PCS receive function" with "PCS receiver"

overflow.

ACCEPT IN PRINCIPLE.

Response

3.522.15 BER test mode counter reset. These bits shall be held at all ones in the case of

C/ 114 SC 114.3.2.			# 377		C/ 114	SC 114.5		P87	L 41	# 380
Pérez-Aranda, Rubén	KDPC				Pérez-Aran	,		DPOF		
Comment Type T The sentence "The cr and may be" does i		able PHD reception a	re left to the impleme	enter	"(or mir	cal power inj nimal)" is not		X should b		EEE and PMD interface fication. n different method that
SuggestedRemedy Replace with: "The criteria to detern CRC16 code as defin		ption is to be based c	n the correctness of		There is C/115 s	s no compati should be mo	al power at TP3. bility requirement fo dified as well accor	dingly.		
		•					e interface primitive	s required t	to any PMD at	P88, L30.
Response ACCEPT IN PRINCIP	Response Status LE.	C			SuggestedF P87, L8 "(or mir	37, Eliminate:	:			
Eliminate complete se	entence, because this i	is already specified ir	114.3.2.1.4.			linal).				
See comment #468					"PMD_		est(tx_pwr): this pri			PCS transmitter to periods in LPI mode, or
C/ 114 SC 114.3.2. Pérez-Aranda, Rubén	2.1 P7 KDPC		# 378		swithing	g on the optic	cal power for refresh	n signals tra	ansmission in L	PI mode or for normal
Comment Type TR L7: PMA is not conne Same error in L44 of s		Α		THP	Response	_	Response Sta	atus C		
SuggestedRemedy Replace with, both L7 "Upon PMA reset, dis		from the PMD or"			ACCEF	' 1.				
Response ACCEPT IN PRINCIP	Response Status									
All the comments rece attached file "perezara			in text proposed in							
C/ 114 SC 114.3.2. Pérez-Aranda, Rubén	3 P7 KDP0		# 379							
Comment Type TR PMA is not connected	Comment Status to PMD.	Α								
SuggestedRemedy Replace with: "Upon PMA reset, dis	connection of the PCS	from the PMD or"								

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 Z/withdrawn SORT ORDER: Comment ID

		Ŭ		•						
C/ 114 SC 114.5 Pérez-Aranda, Rubén	Р 87 КDPOF	L 51	# 381	C/ 114 Pérez-Aran	SC 114.	-	P 88 DPOF	L 34	# 382	
relez-Alanua, Ruben	KDF OI			Felez-Alali		INL INL				
Comment Type TR	Comment Status A		EEE and PMD interface	Comment 7	Туре ТК	Comment Star	tus A		EEE and PMD interface	
	ber of zero value symbols that a			P88, L3	32: power c	onsumption is not an s	specification	n for compatibi	lity.	
wake of PMD RX as	need to be increased to be comp s presented by Avago in Pittsbur	rgh (see "Avago		P88, L3	37: Addition	al prvimitive is needed	l for signal	detect inhibitio	n in PMD	
Sleep_wakeup_timi 26th.	ng_of_FOT_Rx_overTemp.pdf") and sent to GE	EPOF reflector at May	Suggested	Remedy					
2001.				L34, El	liminate "co	mpatible with LPI mode	e".			
file "perezaranda_C	extra zero symbols for prefix and EPOF_1_0715.pdf" for rational escription are required to make o	behind that.		PMD si function	SDINH.requ ignal detect n the respo	est(sd_inh): this primit function when the link nsibility to determine th PMD when PHY rece	has been he quality o	established, ta f the signal and	d avoiding incorrrect	
transmission of 146	er shall indicate to its link partne contiguous zero value symbols	. The normal 16	s zeroes postfixed to the	Response		Response Stat	us C	C		
used in the link part also by the PMD re	ader sub-block are appended by ner by the PCS receive function ceive function to save the state of islation before the optical power	for detection of circuitry and s	f the quiet period and switch off the opto-	Replac with		orple. It signal detection by P n of PMD signal detect				
payload data sub-bl the transmission of	The transmitter shall then enter its quiet state until 130 symbol times before the end of the payload data sub-block period. The transmitter shall insert 130 zero value symbols before the transmission of the corresponding pilot or physical header sub-block (including its 16 prefixed zeroes) to prepare the link partner for reception of refresh signals."					Replace "PCS receive function" with "PCS receiver"				

Response

ACCEPT IN PRINCIPLE.

Last sentence simplified as:

Response Status C

the refresh signals to prepare the link partner for reception."

Accept, changing "link partner by PCS receive function" with "remote PHY receiver".

"After this, the transmitter shall insert 130 zero value symbols before the transmission of

C/ 114 SC 114.5 Pérez-Aranda, Rubén	P89 KDPOF	L1	# 383	both transmi	t and receiv	_PI functionality. This variab ve PHD is TRUE. Otherwise al and remote PHY have EE	it is FALSE.	
Comment Type TR State diagrams that gov include signal detect inl	Comment Status A vern generation of signals to hibition.	control PMD ha	EEE and PMD interface ave to be modified to	enabled in be FALSE: eithe		emote PHY do not have EE	E ability or it is	disabled
0			indication the state of	C/ 114 SC	114.5.2	P 90	L 36	# 384
PCS TX and RX but no	ear in description. They shou t PMD.		indicating the state of	Pérez-Aranda, R	ubén	KDPOF		
SuggestedRemedy				Comment Type	TR	Comment Status A		EEE and PMD interface
Replace the 2 state dia "perezaranda_GEPOF_	grams with the ones attache _1_0715.pdf".	d in file		header sub-t wake of PMI	olocks need ORX as pre	of zero value symbols that a d to be increased to be comp esented by Avago in Pittsbur	patible with req	uirements for sleep and o -
PMD control state varia tx pwr	ables			26th.	up_timing_	of_FOT_Rx_overTemp.pdf") and sent to G	EPOF reflector at May
Indicates to the PMD tra Values:ON: the PMD ge	ansmitter to generate, or not enerates signal at the MDI. t generate signal at the MDI,	, C				a zero symbols for prefix and OF_1_0715.pdf" for rational		needed. See attached
		, and may reduc	e power consumption.	SuggestedReme	dy			
Values:ON: the PMD re receive function.	eceive function to ignore, or r eceive function receives signation function ignores signal at the	al at MDI and tr	ansfer to the PCS	- no output o	n of 130 ze ptical powe n of 130 ze	ero symbols, to indicate entr er during 7744 symbols (quie ero symbols, to prepare the r esh signals	et);	ot and physical header
circuitiy, and may reduc				Replace "80'	' with "130"	' in L 53		
sd_inh Indicates to the PMD si	ignal detect function to be or	not inhibited		Response		Response Status C		
Values:TRUE: the PMD	l detect function operates no	ibited.		ACCEPT IN	PRINCIPLI	•		
pcs_tx Signal internally genera	ated by the PCS transmitter of	durina LPI opera	ation	Correct seco - no output o		er during 7644 symbols (quie	et)	
Values:ON: enable PCS OFF: disable PCS trans	S transmit (refresh).	5 1		because: 98	8*8 - 130 -	130 = 7644		
pcs_rx Signal internally genera Values:ON: enable PCS OFF: disable PCS rece		during LPI ope	ration					
Response	Response Status C							
ACCEPT IN PRINCIPL	E.							
Replace "PCS receive t	function" with "PCS receiver'							
Add state variable defir	nition:							

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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 384

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Cl 114 Pérez-Aran	SC 114.5.4	Р 91 КDPOF	L 34	# 385	C/ 114 SC 114.2.4.5 P60 Pérez-Aranda, Rubén KDPOF	L 41 # <u>388</u>
	,					
present	has to be modifie ed by Avago in F	Comment Status A ed accoridng to requirements Pittsburgh (see "Avago - of_FOT_Rx_overTemp.pdf") :	·		Comment Type TR Comment Status A Wrong equation for calculation of v(m). SuggestedRemedy Replace "m - i + 1" with "m - i - 1", as:	
	cks are needed.	a zero symbols for prefix and See attached file "perezaran			v(m) = sum(i=0, Nb-1, b(i)*y(m-i-1)); Response Response Status C	
SuggestedF	Remedy				ACCEPT.	
"Tq (us)		M_CW – NSYM_ZERO) / Fs	= (8*988 - 260))/325 = 23.52 us"	C/ 114 SC 114.8.1 P93 Pérez-Aranda, Rubén KDPOF	L 37 # <u>389</u>
	e L43 with: = (NSYM + NSY	YM_ZERO) / Fs = (16 + 128 · Response Status C	+ 16 + 260)/32	5 = 1.30 us"	Comment Type TR Comment Status A 2 contiguous contradictory sentences.	
ACCEP	Т.				SuggestedRemedy	
SuggestedF Replace In PCS path fro	ype TR tion is not correct Remedy e with: GMII level loopb m the GMII loopi insmit and receiv	KDPOF Comment Status A ct. The data is looped back to back, the 1000BASE-H PCS is ing the data back to the rece we functions may not be exern Response Status C	shall accept da	ata on the transmit data	Test mode 1 only directly affects the transmitter of the operate in normal or test mode. The PHY receiver solink partner in the PHD to configure accordingly. Response Response Status C ACCEPT IN PRINCIPLE. Fix the grammar.	
Cl 114 Pérez-Arano	SC 114.6 da, Rubén	P 91 KDPOF	L 51	# 387		
Comment T Errors i	<i>ype</i> TR n equations and	Comment Status A text.		PCS to PMD		
SuggestedF Correct		ons according to attached file	"perezaranda	_GEPOF_3_0715"		
Response ACCEP	Т.	Response Status C				
				d T/technical E/editorial G/g NSE STATUS: O/open W/writ		nent ID 389 Page 76 of 100 15/07/2015 16

SORT ORDER: Comment ID

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C/ 115 SC 115 . Pérez-Aranda, Rubén	2 <i>P</i> 103 KDPOF	L 26	# 390	C/ 115 Pérez-Arai	SC 115.2.3.2 nda, Rubén	Р 104 КDPOF	L 31	# 392
Comment Type TR	Comment Status A		EEE and PMD interface	Comment	,	Comment Status A		EEE and PMD interface
	to the list intended to be used for	signal detect	inhibition, required for LPI	Wrong	description. Una	ccurate. This primitive is c	ontinuously gene	erated.
	behind this comment is that the st Page 108 is very difficult to be im analog circuit.			and va	MD_TXPWR.requ	lest(tx_pwr) is continuousl he operation mode as spe		
- Clause 114.5 (LF	has to be also considered in: PI), also proposed remedy and sta functional block diagram Clause 115.	ate diagrams n	nodifications					
uggestedRemedy				Replac	ce "transmit functi	on" of PCS by "transmitter	11	
Add: PMD_SDINH.requ	est after PMD_RXDETECT.indic	ation.		C/ 115 Pérez-Arai	SC 115.2.4.2 nda, Rubén	P 105 KDPOF	L 5	# 393
Response ACCEPT.	Response Status C			Comment Wrong	51	Comment Status A ccurate. This primitive is c	ontinuously gene	EEE and PMD interface arated.
C/ 115 SC 115 Pérez-Aranda, Rubén Comment Type TR	KDPOF Comment Status A	L15	# 391 EEE and PMD interface	and va	MD_RXPWR.requ	lest(rx_pwr) is continuousl he operation mode as spe		
defined in C/115. I going to be done: Other topic is that	tical output power compatible with Moreover, it is not required. Spec no optical power injected to fiber a residual optical power may be ke LOPoff, which should be speci	ification should during quiet pe coupled at TP2	d be what in reality is eriods.		PT IN PRINCIPLE ce "PCS receive fi	Response Status C unction" with "PCS receive	۲ ″	
SuggestedRemedy				C/ 115	SC 115.2.4.3	P105	L11	# 394
P104, L15, Replac				Pérez-Arai	nda, Rubén	KDPOF		
	sed for optional EEE capability. The rer during quiet priods of LPI mod			Comment	Type TR	Comment Status A		EEE and PMD interface
generated at MDI	during refresh periods of LPI moo itter. When tx_pwr = OFF, the an	le or when nor	mal-interframe operation		detect function is SDINH.request.	going to be controlled with	n additional prim	itive
P104, L36, Replac	ce with:			Suggested	Remedy			
	uest(OFF) requests the PMD tran ng the analog tx_signal ignored.	nsmit function	to produce no optical		L11, Eliminate se forces the"	ntence:		
Response ACCEPT.	Response Status C			"When		with: he signal detect function is OK, independently of optio		
				Response		Response Status C		
				ACCE	PT.			

Cl 115 SC 115.2 Pérez-Aranda, Rubén	<i>Р</i> 105 КDPOF	L 44	# 395	C/ 115 Pérez-Arar	SC 115.3.5 nda, Rubén	Р 108 КDPOF	L 30	# 396		
Comment Type TR Add primitive definition	Comment Status A		EEE and PMD interface	Comment	51	Comment Status A agram to include new signal	detect function	EEE and PMD interface		
SuggestedRemedy						on and the state variables de				
PMD SDINH.request				Suggested	lRemedy					
This primitive is general	ted to request the PMD sign received optical signals and			Replac numbe	0	vith the one in attached file "p	perezaranda_G	EPOF_1_0715", slide		
TRUE: The PMD Signal OFF: The PMD Signal of When generated The PMD_SDINH.reque		eceive MDI opt	ical signals. e PCS receive function	Upon F transiti indicat a thres (PMDE below provide When	PMD device pow ions to PMDDET es the functional shold of -29 dBm DET_OK state). -35 dBm to caus e hysteresis in th	P109, L1, with: ver on (power_on = TRUE), tl _FAIL indicating signal_dete lity is not inhibited. When rec the state diagram transition Once in this state, receive op the transition to the PMDDET_ the signal_detect indication. the PMD signal detect is inh _on = TRUE.	ect = FAIL if sd_ evive optical po is to indicate si otical power at t _FAIL state. Th	_inh = FALSE, that wer at MDI is higher than gnal_detect = OK the MDI has to decrease ese separated thresholds		
Effect of receipt PMD_SDINH.request(FALSE) requests to PMD signal detect function to operate normally.					P109, L24, Eliminate sub-clause 115.3.5.2 PMD signal detect timers.					
PMD_SDINH.request(T	Response Response Status C									
functionality providing the level received at MDI.	ne primitive signal_detect =	OK, independe	ently of optical signal	ACCE	PT.					
Response	Response Status C									

ACCEPT IN PRINCIPLE.

PCS receive function -> PCS receiver

C/ 115 SC 115.4.1 P110 L15 # 397 Pérez-Aranda, Rubén KDPOF KDPOF <t< th=""><th>C/ 115 SC 115.4.2 P110 L43 # 399 Pérez-Aranda, Rubén KDPOF</th></t<>	C/ 115 SC 115.4.2 P110 L43 # 399 Pérez-Aranda, Rubén KDPOF
Comment Type TR Comment Status A EEE and PMD interface Add max. values for t_sleep and t_wake. EEE and PMD interface EEE and PMD interface	Comment Type TR Comment Status A EEE and PMD interface Add max. values for t_sleep and t_wake. EEE and PMD interface EEE and PMD interface
SuggestedRemedy t_sleep,max = 100 ns t_wake,max = 1400 ns	SuggestedRemedy t_sleep,max = 200 ns t_wake,max = 400 ns
See attached file "perezaranda_GEPOF_1_0715" for rational behind timing requirements of PMD for LPI operation.	See attached file "perezaranda_GEPOF_1_0715" for rational behind timing requirements of PMD for LPI operation.
See also file "Avago-Sleep_wakeup_timing_of_AFBR-59F3Z_overTemp" and "IEEE802.3bv_1000Base-RH_FOT_Sleep&wakeup_timing_diagrams" <i>Response</i> Response Status C ACCEPT IN PRINCIPLE. Accept 100ns for t_sleep,max. For t_wake,max, the remedy is rejected in favor of comment #438.	See also file "Avago-Sleep_wakeup_timing_of_AFBR-59F3Z_overTemp" Response Response Status C ACCEPT IN PRINCIPLE. Accept values. Modify the names of transition times to t_off and t_on, respectively. This is to avoid
Modify the names of transition times to t_off and t_on, respectively. This is to avoid confusion with sleep and wake terminology used in LPI. Off transition time (time from tx_pwr = OFF to LOP_OFF), t_off On transition time (time from tx_pwr = ON to active operation), t_on	Off transition time (time from rx_pwr = OFF to quiet mode)toff On transition time (time from rx_pwr = OFF to quiet mode)toff On transition time (time from rx_pwr = ON to active operation)ton C/ 115 SC 115.5.5 P112 L 51 # 400
Cl 115 SC 115.4.1 P110 L 19 # 398 Pérez-Aranda, Rubén KDPOF Comment Type TR Comment Status A EEE and PMD interface	Pérez-Aranda, Rubén KDPOF Comment Type TR Comment Status A EEE and PMD interface Definitions of rise and fall times are not correct, because they do not take into account the ER of the transmit signal. ER of the transmit signal. EEE and PMD interface
LOP and LOPoff should be explained and their relation with PMD_TXPWR.request SuggestedRemedy Add following text: Average launch optical power depends on the operation mode of the PHY transmitter (normal interframe or LPI). LOP parameter is defined as the average launching optical power at TP2 when PMD transmit function receives primitive PMD_TXPWR.request(ON) (normal operation and LPI refresh signals). LOPoff parameter corresponds to the optical power when PMD transmit function receives primitive PMD_TXPWR.request(OFF) (LPI quiet periods). LOPoff maximum vaue is compatible with the PMD signal detect function	SuggestedRemedy Replace with: Rise time shall be measured as the time to transition the optical signal from (0.1*P1 + 0.9*P0) to (0.1*P0 + 0.9*P1), being P0 and P1 as defined in 115.5.3. The fall time shall be measured as the time to transition the optical signal from (0.1*P0 + 0.9*P1) to (0.1*P1 + 0.9*P0). Response Response Status C ACCEPT.
specified in 115.3.5. Response Response Status C ACCEPT.	

Comment Type TR Comment St EAF sepcifications have to be provided agreed in PMD ad-hoc group. The uppe the EAF, better bandwidth and lower at SuggestedRemedy Add table 115-6, with the content provid "perezaranda_GEPOF_4_0715", based "IEEE802.3bv_1000Base-RH_EAF_res Response Response Sta ACCEPT. Cl 45 SC 45.2.3.49.3	a as tables, only defini er bound limit is not re ttenuation will be obta ded in the attached fil d on measurements o sults"	ing the lower be equired becaus ained at TP3. le of Avago FOT re	ound limit as se as higher is	EAF Co Su Ru Cu	érez-Aranda, omment Type PHD.CAP.I local device uggestedRem Replace wi esponse ACCEPT II See comm	TR LPI advertiser e is capable for nedy ith similar work N PRINCIPLE	KDPOF Comment Status A ment bit is transmitted as 1 if or EEE indicated by register rding of OAM enable. Response Status C		# 4 <u>03</u> <i>C4</i> 518.0) is 1 AND the # 404
EAF sepcifications have to be provided agreed in PMD ad-hoc group. The uppe the EAF, better bandwidth and lower at SuggestedRemedy Add table 115-6, with the content provid "perezaranda_GEPOF_4_0715", based "IEEE802.3bv_1000Base-RH_EAF_res Response Response Sta ACCEPT. Cl 45 SC 45.2.3.49.3 Pérez-Aranda, Rubén k Comment Type TR Comment St PHD.CAP.OAM advertisement bit is tra local device is capable for OAM indicate Ability for OAM is implementation option capabilities between link partners by us SuggestedRemedy Replace with:	d as tables, only defini er bound limit is not re ttenuation will be obta ded in the attached fil d on measurements of sults" ratus C	equired becaus ained at TP3. le of Avago FOT re	ound limit as se as higher is reported in	Ci	PHD.CAP.I local device uggestedRem Replace wi esponse ACCEPT II See comm	LPI advertiser e is capable fo nedy ith similar wor N PRINCIPLE ent #286	ment bit is transmitted as 1 ir or EEE indicated by register rding of OAM enable. <i>Response Status</i> C	3.519.0.	518.0) is 1 AND the
ACCEPT. <i>Cl</i> 45 <i>SC</i> 45.2.3.49.3 Pérez-Aranda, Rubén k <i>Comment Type</i> TR <i>Comment St</i> PHD.CAP.OAM advertisement bit is tra local device is capable for OAM indicate Ability for OAM is implementation option capabilities between link partners by us <i>SuggestedRemedy</i> Replace with:	P28 L6	3	# 402	-	See comm	ent #286			# 404
Pérez-Aranda, Rubén k <i>Comment Type</i> TR <i>Comment St</i> PHD.CAP.OAM advertisement bit is tra local device is capable for OAM indicate Ability for OAM is implementation option capabilities between link partners by us <i>SuggestedRemedy</i> Replace with:		6	# 402	-	40 0				
Comment Type TR Comment St PHD.CAP.OAM advertisement bit is tra local device is capable for OAM indicate Ability for OAM is implementation option capabilities between link partners by us SuggestedRemedy Replace with:	KDPOF				érez-Aranda,		KDPOF		
PHD.CAP.OAM advertisement bit is tra local device is capable for OAM indicate Ability for OAM is implementation option capabilities between link partners by us <i>SuggestedRemedy</i> Replace with:				C	omment Type	TR	Comment Status A		C4
local device is capable for OAM indicate Ability for OAM is implementation option capabilities between link partners by us SuggestedRemedy Replace with:	tatus A			C45	Incorrect de	escription. It h	nould EEE instead of OAM		
SuggestedRemedy Replace with:	ted by register 3.519.1 mal. It should be indic	1. cated in C/114.4	4. Exchange o			e PHY has EE	E ability ot have EEE ability <i>Response Status</i> C		
					ACCEPT.		Response Status		
advertisement bit is transmitted as one (enable) and OAM ability, by the local d ability (3.519.1). Setting to zero (disable) causes the PH zero (see Table 114-2).	when OAM enable bidevice, is indicated wi	it (3.518.1) is s ith value one in	set to one n register OAM	Pe Co s	45 S érez-Aranda, omment Type Incorrect de uggestedRem	e TR escription	1 P30 KDPOF Comment Status A	L 3	# <mark>405</mark> C4
Response Response Sta ACCEPT IN PRINCIPLE. See comment #285	atus C				Replace wi This bit ind	ith: licates the valu	ue of the state variable loc_u gram (see <put correct="" re<br="" the="">Response Status C</put>		termined by the PHY
					ACCEPT.				

C45

C45

C45

C/ 45	SC 45.2.3.50.	14 P31	L17	# 406	C/ 45	SC 45.2.3.51.	1 P31	L 36	# 407
Pérez-Ara	nda, Rubén	KDPOF			Pérez-Ara	nda, Rubén	KDPOF		
Comment	Type TR	Comment Status A		C45	Comment	Type TR	Comment Status A		

No descriptions for OAM ability and EEE ability bits.

SuggestedRemedy

OAM ability:

This bit indicates the OAM ability if the local PHY. When read as one, this bit indicates that the local PHY is capable of running an OAM protocol. When read as zero, it indicates the local PHY is not capable for OAM protocol.

EEE ability:

This bit indicates the EEE ability if the local PHY. When read as one, this bit indicates that the local PHY is capable of LPI, hence the local PHY is able to enter the transmit PCS in LPI mode asserted from GMII and also to accept the PCS receive function LPI signaling from PMD service interface. When read as zero, it indicates the local PHY is not capable for LPI operation in either transmission or reception.

Response

Response Status C

ACCEPT IN PRINCIPLE. Improvement:

OAM ability:

This bit indicates the OAM ability of the local PHY. When read as one, this bit indicates that the local PHY is to run the OAM protocol. When read as zero, it indicates the local PHY is not able to run OAM protocol.

EEE ability:

This bit indicates the EEE ability of the local PHY. When read as one, this bit indicates that the local PHY implements EEE, hence the local PHY is able to enter the PCS transmitter in LPI mode asserted from GMII and also to accept the PCS receiver LPI signaling from PMD service interface. When read as zero, it indicates the local PHY does not implement EEE operation in either transmission or reception.

 Comment Type
 TR
 Comment Status
 A
 C45

 Description can be improved. Correct log2(100.35) replacing with log2(10^0.35).
 SuggestedRemedy
 C45

 SuggestedRemedy
 These bits are set by the local 1000BASE-H PHY to indicate the link margin of receiver. Link margin is defined as the extra signal-to-noise ratio that is available in decoding with
 C45

Link margin is defined as the extra signal-to-noise ratio that is available in decoding with respect to the minimum one needed by the receiver to assert loc_rcvr_status = OK. Link margin is provided fix-point formatted (14,6) in log2 units. For example, a link margin of 3.5 dB is equivalent to log2(10^0.35) = 1.1627 log2 units, which is equivalent to 0x012A in (14,6) fixed-point format.

Response ACCE			Response Status	с	
<i>CI</i> 45 Pérez-Ara		45.2.3.52.1 ubén	Р 32 КDPOF		# 408
<i>Comment</i> Descr	,,	TR an be impro	Comment Status	Α	C45

SuggestedRemedy

These bits reports the link margin of the remote PHY receiver as it is received in the PHD field PHD.RX.LINKMARGIN. Remote link margin is the extra signal-to-noise ratio available in the remote receiver with respect to the minimum one needed to assert rem_rcvr_status = OK. Same fixed-point format of local link margin (3.520.13:0).

Response Response Status C

ACCEPT.

CI 78 SC 78.2		L 27	# 409		SC 114.2	P 37	L 49	# 411
Pérez-Aranda, Rubér	KDPOF			Pérez-Aranda	i, Rubén	KDPOF		
Comment Type T	R Comment Status A		EEE and PMD interface	Comment Typ	De TR	Comment Status A		
blocks when they	bls (80) with value 0 prepended a are used as refresh signals in LF he PMD RX function requires.				-	smitters the description comming	up next.	
	has to agree with requirements	or sleep and wa	ke of PMD RX as		-			
presented by Ava Sleep_wakeup_ti 26th.	igo in Pittsburgh (see "Avago - ming_of_FOT_Rx_overTemp.pdf	") and sent to GE	POF reflector at May		transmit function	includes several steps. T I into 65-bit length blocks		
SuggestedRemedy						ransmit signal independe		
Modify line 27 as						I mapped into PAM16 sy ed encoder which genera		
0, 0, 23.52, 23.52				resulstan	t PAM16 symbols	are Tomlinson-Harashin	na precoded to pr	e-compensate the
Soo attached file	"perezaranda GEPOF 1 0715.g	df" for rational b	ohind that			roduced when transmit s ded codewords are inse		
Response	Response Status C					headers) for data link co		blocks, logether with
ACCEPT.	Response Status				na a situa fi un attinu u		fan aanvaat tinaa a	
						performs clock recovery to lization. The PAM16 cod		
C/ 114 SC 114	.1.5 <i>P</i> 37	L 4	# 410	Block and	d decoded for erro	or correction and detection	on. The resultant i	nformation is
Pérez-Aranda, Rubér	KDPOF					e original PDB that enca s generated from PDB de		rmation. Finally, the
Comment Type T			EEE and PMD interface	Response	F	Response Status C		
* MDC arrow is n	to be corrected / improved: ot correct, it should be an input to bidirectional arrow	PHY			IN PRINCIPLE.			
* Indicate OAM a	s optional implementation IH.request service promitive, that	has to also be a	dded to clause 115.	functions	are not specifical	Id "receive functions". PO Iy defined as in PMD (C/ ansmitter is a possible a	115). For other pl	aces of where
SuggestedRemedy					side of the PHY.		atomativo do a ge	
Replace figure wi	th that attached in file: perezaran	da_GEPOF_2_0	715.pdf			ile have and readings		
Response	Response Status C			Eliminate	unnecesary deta	ils here and rephrasing:		
ACCEPT.	,			encapsul	ated and encoded	s include several steps. 7 I into 65-bit length blocks e transmit signal indeper	s called Physical I	Data Blocks (PDB) and
				the inforn Code (MI	nation is encoded _CC) block oriente	and mapped into PAM16 ed encoder. The resultan	6 symbols using a It PAM16 symbols	a Multi-Level Coset are Tomlinson-
				symbols division n	raverse the commultiplexed with co	ompensate the inter-syml nunication channel. Final ontrol information using v	lly, the pre-coded	code words are time
				symbols	receive functions and adaptive char	perform clock recovery f nnel equalization. Receiv nd decoded for error cor	ed PAM16 code	words are extracted
				informatio		recovering the original F		

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 Z/withdrawn SORT ORDER: Comment ID

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C/ 114 SC 114.2.3.3 P43 L1 # 412 Vérez-Aranda, Rubén KDPOF KDPOF <t< th=""><th>C/ 114 SC 114.2.4.3.3 P53 L 36 # 414 Pérez-Aranda, Rubén KDPOF KDPOF 414</th></t<>	C/ 114 SC 114.2.4.3.3 P53 L 36 # 414 Pérez-Aranda, Rubén KDPOF KDPOF 414
Comment Type TR Comment Status A No complete information to accurately define polynomial coefficients definition.	Comment Type TR Comment Status A Wrong equation for kQ.
uggestedRemedy Replace L1 after last full stop, with: "The 177 coefficients of G(x) are given by the hexadecimal number:	SuggestedRemedy Replace with: kQ = floor(kQAM/2)
bla bla g(0) being the rightmost bit."	Response Response Status C ACCEPT.
Similar for P51, L41: "The 309 coefficients of G(x) are given by the hexadecimal number: bla bla c(0) being the rightmost bit "	C/ 114 SC 114.2.4.3.4 P 56 L 4 # 415 Pérez-Aranda, Rubén KDPOF KDPOF
g(0) being the rightmost bit." esponse Response Status C ACCEPT.	Comment Type TR Comment Status A Lambda_1_t(I) is not correct
114 SC 114.2.4.1.1 P47 L 50 # 413 érez-Aranda, Rubén KDPOF	SuggestedRemedy Replace with: Lambda_1,1_t(I)
omment Type TR Comment Status A Wrong equation that defines mod(x,y)	Response Response Status C ACCEPT IN PRINCIPLE.
uggestedRemedy Replace with:	Also eliminate "Let us denote as "
$mod(y,x) = y - x^*floor(y/x)$	C/ 114 SC 114.3.2.1.1 P65 L23 # 416 Pérez-Aranda. Rubén KDPOF
Same correction for P58, L13 and P59, L46 sponse Response Status C ACCEPT IN PRINCIPLE.	Comment Type TR Comment Status A " or based blind algorithms" is not technically correct because the equalization training is after rcvr_clock_lock = OK,
Correct the equation where the modulo operator appears in the text the first time. Other locations in the text where modulo operator is defined again, replace with a reference to first equation.	SuggestedRemedy Replace with from P62, L54: "Fine timing recovery may be implemented based on data-aided algorithms that use the received S1 and S2 pilot sub-blocks."
	P65, L29: Eliminate "as already mentioned"
	Response Response Status C

C/ 114	SC 114.3.1	P 63	L13	# 417
Pérez-Ara	anda, Rubén	KDPOF		

Comment Type TR Comment Status A

P63, L13: Description of PHD.TX.NEXT.PDB.OFFSET is vague P63. L26: In description of PHD.RX.REQ.THP.COEF[0:8] it should be indicated that b(k)

coefficients are exactly the same indicated in 114.2.4.5.

P63, L36: wrong reference

P63. L46: wrong reference

P64, L5, Description: I miss a cross reference

P64, L5, Valid values: eliminate example, because it is already in C/45 and formal definition is provided for fixed-point format.

P64, L14: vague

P64, L20: vague

SuggestedRemedy

P63. L13:

"Used to announce to the receiver the offset (in number of bits) of the first PDB belonging to the first payload data sub-block in the next Transmit Block (see 114.2.4.1.1). Offset 0 indicates the first PDB starts aligned to first code-word of next Transmit Block"

P47. L29:

"... is used to announce to the receiver the offset in number bits of the start of the first PDB (PDB0) belonging to the first data payload sub-block in Transmit Block i+1 ..."

P63, L26, Description:

"Requested THP coefficients set when PHD.RX.REQ.THP.SETID is not equal to 0. These are the 9 coefficients b(i) of equation (114-16) (see 114.2.4.5)."

P63, L26, Valid values: Add "(see 114.3.4)"

P63. L36: "(see 114.3.2.3)"

P63, L46: "(see 114.3.2.1.4)"

P64, L5, Description: "(see 114.3.2.3)"

P64, L5, Vaid values: Eliminate example. Add "(see 114.3.4)"

P64, L14, Description:

"This field indicates the PHY supports and is enable for EEE, so that it is able to transmit and receive Low Power Idles during the payload data sub-blocks (see 114.5)"

P64, L14, Valid values: "0: EEE is not supported or is disable 1: EEE is supported and is enable"

P64, L20, Description:

"This field indicates the PHY supports and is enable for OAM protocol, so that it is able to transmit and receive management information by using the PHD.OAM.* fields (see 114.4)"

P64, L20, Valid values: "0: OAM is not supported or is disable 1: OAM is supported and is enable"

Response Response Status C

ACCEPT IN PRINCIPLE.

Rmedy for P47, L29 is rejected in favor of that provided in comment #304.

P63. L13. modify as:

"Encodes the number of bits between the first payload bit of the next Transmit Block and the start of the first PDB in that block (see 114.2.4.1.1). Offset 0 indicates the first PDB starts aligned to first payload bit of Transmit Block."

P.64, L.14 This field indicates the PHY supports and has enabled EEE, and that it is able to transmit and receive Low Power Idle (see 114.5). Also disable -> disabled and enable -> enabled.

P.64. L.20 This field indicates the PHY supports and has enabled OAM, and that it is able to transmit and receive management information by using the PHD.OAM.* fields (see 114.4) Also disable -> disabled and enable -> enabled.

Rest of corrections accepted.

C/ 114	SC	114.3.2.1.5	P 7	0	L35	# 418
Pérez-Aranda, Rubén		KDPC	DF			
Comment	Туре	TR	Comment Status	Α		
		,	is not connected to fined for -H type PH		ore this term s	should be avoided
Suggested	Remed	ly				
link_co Variab Values	le that o DISAB	controls the BLE: isolate	e connection betwee s the PCS from the PCS to the PMD (bo	PMD		·
Response ACCF	PT		Response Status	С		

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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 418

C/ 114 SC 114.3.2 Pérez-Aranda, Rubén	.1.1 <i>P</i> 62 KDPOF	L 47	# 419	C/ 114 Pérez-Aranda	SC 114.3.2.1 . a, Rubén	5 <i>P</i> 70 KDPOF	L 53	# 421
Comment Type TR	Comment Status A			Comment Typ	be TR	Comment Status A		
PMD is connected to	PCS, but not PMA, accoding	to functional block	diagram of 114.1.5		: "receive link"	is a new term. link is estab	lished bidirectiona	I. Description is
SuggestedRemedy				confuse.				
	et or disconnection of the PCS PCS is connected to the PM		HY receive operation	P71, L4:	no precise des	cription.		
	or disconnection of the PCS . Once the PCS is connected		Y transmitter	64B/65B	encoder is rea	lication does not exist. Inco Ily enable/disable, but conr B/65B encoder from the be	nected/disconnected	ed to GMII TX. PDB
P66, L19: "Upon rese	et or disconnection of the PCS	from the PMD,	n	SuggestedRe	emedy			
P68, L6: "Upon reset	or disconnection of the PCS	from the PMD,"		"Variable		Y quality monitor state diag	ram to indicate the	e correct or incorrect
	et or disconnection of the PCS			Values:O	K: the receiver	of the local PHY receiver. of the local PHY is operati		
	et or disconnection of the PCS	from the PMD,	"	NOT_OK	: operation of t	the receiver of the local PH	Y is unreliable"	
Response ACCEPT.	Response Status C			"Variable		eption of a PHD indicating t	the receiver status	of the remote (link
C/ 114 SC 114.3.2 Pérez-Aranda, Rubén	. 1.4 <i>P</i> 68 KDPOF	L15	# 420	Values:O	K: the receiver	a payload decoding. of the remote PHY is oper the receiver of the remote F		
Comment Type TR Clock Recovery funct	Comment Status A tion belongs to PCS RX, acco	rding to 114.1.5		"Variable		he link monitor state diagra o connect GMII TX to the 6		
SuggestedRemedy				decoder 1	o GMII RX, re	spectively		
Eliminate "PMA"						been established between unication directions	link partners guar	anteeing data
Response ACCEPT.	Response Status C			FAIL: link		hed (one or both directions	are not providing	reliability in data
				Response		Response Status C		
				ACCEPT	IN PRINCIPLI	Ε.		
				"Variable data payl Values:O	oad decoding. K: the receiver	Y quality monitor state diag of the local PHY is operati the receiver of the local PH	ng reliably	e correct or incorrect
				, ,		eption of a PHD that indica	tes the receiver sta	atus of the remote (link
TYPE: TR/technical requi COMMENT STATUS: D/c	red ER/editorial required GF dispatched A/accepted R/rej	R/general required	T/technical E/editorial G/g SE STATUS: O/open W/wri	eneral tten C/closed Z/	withdrawn	Comr	ment ID 421	Page 85 of 100 15/07/2015 16:23:1

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

Values:OK: the receiver of the remote PHY is operating reliably NOT_OK: operation of the receiver of the remote PHY is unreliable"	C/ 114 SC 114.3.2.2.2 P74 L20 # 424 Pérez-Aranda, Rubén KDPOF
C/ 114 SC 114.3.2.1.5 P72 L1 # 422 Pérez-Aranda, Rubén KDPOF KDPOF	Comment Type E Comment Status A THF Colloquial
Comment Type TR Comment Status A Incomplete/incorrect description of state variable tx_enable.	SuggestedRemedy Eliminate "Let us note that,"
SuggestedRemedy tx_enable Variable set by the PHY TX control state diagram to enable the PCS transmit function. Values:TRUE: PCS transmitter is enabled FALSE: PCS transmitter is disabled	Response Response Status C ACCEPT IN PRINCIPLE. All the comments received to subclause 114.3.2.2 are addressed in text proposed in attached file "perezaranda_GEPOF_5_0715"
Response Response Status C ACCEPT IN PRINCIPLE.	C/ 114 SC 114.3.2.2.3 P76 L43 # 425
ACCEPT IN PRINCIPLE.	Pérez-Aranda, Rubén KDPOF
Values:TRUE: PCS transmission is enabled FALSE: PCS transmission is disabled C/ 114 SC 114.3.2.2 P72 L21 # 423	P76. L43, and L48, Unaccurate. P76. L54, capital "Adaptive" P77. L5, capital "Adaptive" P77. L11, capital "Adaptive"
Pérez-Aranda, Rubén KDPOF	SuggestedRemedy
Comment Type TR Comment Status A THP L21: The equalizer is located within the PCS receive function, but not PMA. L24: "receiver" has to be indicated. L24: "receiver" has to be indicated.	P76. L43, Replace with: "Variable set by the adaptive THP TX state diagram when a correct PHD reception occurs. It is the coefficients requested by the link partner to be used for TH precoding of the payload data sub-blocks"
SuggestedRemedy L21: replace "PMA" by "PCS" or "PHY"	P76. L48, Replace with: "Variable set by the adaptive THP TX state diagram when a correct PHD reception occurs. It is the set identifier"
L24: "is to be fully implemented in the PHY receiver and does not require coordination with the link partner transmission."	P76, L54: replace with "adaptive"
Response Response Status C ACCEPT IN PRINCIPLE.	P77, L5: replace with "adaptive"
	P77, L11: replace with "adaptive"
L21: use "PCS"	Response Response Status C ACCEPT IN PRINCIPLE.
	All the comments received to subclause 114.3.2.2 are addressed in text proposed in attached file "perezaranda_GEPOF_5_0715"

Comment ID 425

Obfuscated dscription SuggestedRemedy "Variable set by the PHY receiv available. Values:TRUE: indicates a new TRUE extends one receive syn start	set of THP coefficients mbol period. It may be ponse Status C	s is ready to be u	ised. The value	<i>THP</i> ock	Suggested	is 45-7 but not 45 <i>IRemedy</i> ce with Table 45-7				C45
"Variable set by the PHY receiv available. Values:TRUE: indicates a new TRUE extends one receive syr start Response Resp	set of THP coefficients mbol period. It may be ponse Status C	s is ready to be u	ised. The value	ock	Replac Response	ce with Table 45-7				
Values:TRUE: indicates a new TRUE extends one receive syr start Response Resp	nbol period. It may be			ock	•		Response Status C			
Response Resp										
					C/ 45	SC 45.2.3	P 23	L 29	# 430	
					Pérez-Ara	nda, Rubén	KDPOF			
					Comment	Туре Е	Comment Status R			C45
All the comments received to s attached file "perezaranda_GE		e addressed in te	ext proposed in			ding to 802.3-2012 CS is Table 45-99.	2_SECTION4, the table cont	taining the assig	nment of registers in	1
C/ 30 SC 30.5.1.1.2	P 21	L 20	# 427		Suggested	lRemedy				
Pérez-Aranda, Rubén	KDPOF				To che	eck number of tab	le			
Comment Type E Con	nment Status A			C30	Response		Response Status C			
According to syntax used in the should be 1000BASE-XH	e aMAUType enumera	tion, enumeratio	n 1000BASE-H		REJE	CT.	-			
SuggestedRemedy					C/ 45	SC 45.2.3	P 23	L 51	# 431	
Replace 1000BASE-H with 100	00BASE-XH.				Pérez-Ara	nda, Rubén	KDPOF			
_	oonse Status C				Comment	Type E	Comment Status R			C45
ACCEPT.					registe	ers in 802.3-2012_	\$ 45.2.3.47 to 45.2.3.50 are SECTION4, therefore sub-			
C/ 00 SC 0	Р	L	# 428			ble for 1000BASE	-H PCS registers			
Pérez-Aranda, Rubén	KDPOF				Suggested	-				
Comment Type E Con	nment Status A				Check	sub-clauses num	bers			
No Table of Content					Response		Response Status C			
Bad generation of metainforma cross-references do not work, t not work properly.					REJE To be		vant for TF review.			
SuggestedRemedy										
Generate apropriate PDF file										
Response Resp	oonse Status C									
ACCEPT.										
See comment #441										

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 Z/withdrawn SORT ORDER: Comment ID

<i>Cl</i> 45 <i>SC</i> 45.2.3.4 Pérez-Aranda, Rubén	9.2 P27 KDPOF	L 40	# 432	C/ 115 Pérez-Arai	SC 115.3.3 nda, Rubén	<i>Р</i> 107 КDPOF	L 35	# 435
	Comment Status A ault value of 000, selecting nor	rmal 1000BAS		C45 Comment Incom	<i>Type</i> E blete sentence.	Comment Status A		EEE and PMD interface
It is not completely cor SuggestedRemedy Replace with: These bits have a defa	rect the sentence. ault value of 000, selecting no	loopback oper	ation.	specifi <i>Response</i>	ansition times fro ed in 115.4.1	m receipt of this primitive u Response Status C	until it takes effe	ct at the MDI are
Response	Response Status C			ACCE	PT.			
ACCEPT.				Cl 45 Pérez-Arai	SC 45.2.3 nda, Rubén	Р 23 КDPOF	L 29	# 436
C/ 114 SC 114.7 Pérez-Aranda, Rubén Comment Type E	P 93 KDPOF Comment Status A	L 8	# 433		s of OAM registe	Comment Status A rs should be modified to pr indicate to be specific of 1		ΟΑΛ related to functionality.
every bit. SuggestedRemedy The PMA and PMD us 45.2.1.1.3: - Reset (1.0.15) - Low power (1.0.11) - Speed selection (1.0. Status bit 1.1.1 is used Response ACCEPT.	t to advertise EEE capability. <i>Response Status</i> C	bits of register	⁻ 1 as specified in	Suggested Replac 1000B 1000B 1000B 1000B 1000B 1000B 1000B 1000B	Remedy ce with: ASE-H OAM trai ASE-H OAM trai ASE-H OAM rec ASE-H PCS con ASE-H PCS stat ASE-H PCS stat ASE-H PCS stat ASE-H PCS stat	nsmit control nsmit message eive control eive message trol us 1 us 2 us 3		
Cl 115 SC 115.3.3 Pérez-Aranda, Rubén	Р 107 КDPOF	L 5	# 434					
Comment Type E EQ 115-1: p1 and p0 s	Comment Status A should be capital, to agree with	h text.	EEE and PMD interfa	ace				
SuggestedRemedy Capitalize p0 and p1								
Response ACCEPT.	Response Status C							

C/ 115 SC 115.4.1 P109 # 437 C/ 115 SC 115.4.2 P110 # 439 L54 L43 Götzfried, Volker Götzfried, Volker Avago Technologies Fi Avago Technologies Fi Comment Type Т Comment Status A Comment Type T Comment Status A EEE and PMD interface The minimum value of the 'center wavelength' cannot be increased and shall remain at 635 Values for transition times are TBD nm SuggestedRemedy SuggestedRemedy Proposal of a maximum quiet transition time is 200 ns Proposal of a maximum wake transition time is 450 ns Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. Comments against this specification have not been received. Accept 200ns for t off. This comment will be taken into account in the PMD ad-hoc group. There is no experimental evidence in reported data in "Avago-C/ 115 SC 115.4.1 P110 L15 # 438 Sleep wakeup timing of AFBR-59F3Z overTemp" to increase the t on from 400 ns to 450 ns. Rejected. Götzfried, Volker Avago Technologies Fi t off and t on specifications of PMD TP3 AFFECTS the specification of PCS for EEE in Comment Type T Comment Status R EEE and PMD interface clause 114.5 (number of zero value symbols that pre/postfix the refresh signals). See attached file "perezaranda GEPOF 1 0715" Values for transition times are TBD SuggestedRemedy It is important to note that the reported experimental results that are being taken as reference for specification are obtained for commercial devices that were not designed to fit Proposal of a maximum sleep transition time is 200 ns the LPI specifications under development in this TF. These devices implement some kind Proposal of a maximum wake transition time is 1500 ns of enable/disable functionalities, but these functionalities are not oriented to LPI Response Response Status C functionality. REJECT. It is expected that transition times will be reduced in implementations oriented to support LPI from design as specified in this clause. See comment #397 C/ 115 SC 115.5.2 P112 L7 # 440 There is no experimental evidence in reported data in "Avago-Götzfried. Volker Avago Technologies Fi Sleep wakeup timing of AFBR-59F3Z overTemp" to increase the t off from 100 ns to 200 ns (rejected). Comment Type T Comment Status A Accepted 1500ns for t on, because experimental results can support it; perhaps 1400 ns The mentioned standard 'EIA/TIA standard FOTP-127/61.3. 1991' shall be replaced by 'IEC may be tight. 61280-1-3 Edition 2.0 2010-03' SuggestedRemedy t off and t on specifications of PMD TP2 do NOT AFFECT the specification of PCS for EEE in clause 114.5. Anyway, as longer the transition times, smaller will be power See comment consumption saving provided by LPI. Response Response Status C ACCEPT IN PRINCIPI F It is important to note that the reported experimental results that are being taken as reference for specification are obtained for commercial devices that were not designed to fit the LPI specifications under development in this TF. These devices implement some kind Also applicable to center wavelength measurement. of enable/disable functionalities, but these functionalities are not oriented to LPI functionality. IEC 61280-1-3 ed2.0 2010-3 is already in 802.3 subclause 1.3 (Normative references). It is expected that transition times will be reduced in implementations oriented to support LPI from design as specified in this clause.

P802.3bv D1.1 Gigabit Ethernet Over Plastic Optical Fiber 2nd Task Force review comments

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 Z/withdrawn SORT ORDER: Comment ID

Comment ID 440

	P L ago Technologies Fi	# 441	<i>Cl</i> 114 <i>SC</i> 114.3.1 Ortiz Rojo, David	Р 62 КDPOF	L 2	# 443
Comment Type E Comment Stat Neither links to sub-sections nor PDF sea			Comment Type E Typo: "OAM messag	Comment Status R es itself".		
SuggestedRemedy			SuggestedRemedy Replace "itself" by "th	nemselves"		
Response Response Statu ACCEPT.			<i>Response</i> REJECT. See comment #220	Response Status C		
Find the root cause of problems generatin containing bookmarks, TOC, copiable tex	t,		C/ 114 SC 114.3.2 Ortiz Rojo, David	.1.3 <i>P</i> 66 KDPOF	L 19	# 444
	P 37 L 1 POF us A	# 442	Comment Type E	Comment Status A s colloquial and does not add in	nformation to the	standard. It should be
The term "data link" could mean higher la Control information could indicate the PH are not used for control, but for timing rec	D, however there are other		SuggestedRemedy Remove the word "ot	oviously".		
SuggestedRemedy Replace with: Transmit Blocks are periodically transmitt	s and control	Response ACCEPT.	Response Status C			
information, used among other tasks, to k recovery, channel equalization and link m are inserted at fixed locations within the T contained in the block. Encapsulation of t	Transmit Blocks are periodically transmitted and also include signals and control information, used among other tasks, to keep aligned the transmitter and receiver in clock recovery, channel equalization and link monitoring. These signals and control information are inserted at fixed locations within the Transmit Block interrupting the GMII data stream contained in the block. Encapsulation of the GMII data stream within the Transmit Block also includes forward error correction encoding in fixed length code-words, which are also inserted at fixed locations in the block.			2.2 P72 KDPOF <i>Comment Status</i> A quial.	L 43	# 445 THP
Response Response State ACCEPT IN PRINCIPLE.	us C		SuggestedRemedy Remove 'Let us note' Response	Response Status C		
The idea in this overview is very high leve preceding paragraph. Simplify as:	el. "periodically" is redunda	ant with "series" in	ACCEPT IN PRINCIP			
"Transmit Blocks also include pilot signals transmitter and receiver. These signals a locations within the Transmit Block intern block. Encapsulation of the GMII data stru forward error correction encoding."	nd control information are i upting the GMII data strean	inserted at fixed n contained in the		eived to subclause 114.3.2.2 a randa_GEPOF_5_0715"	are addressed in	text proposed in

C/ 114 SC 114.3.2.2.1 P73 L 21 # 446 Ortiz Rojo, David KDPOF KDPOF	C/ 114 SC 114.3.2.2.2 P74 L 20 # 448 Ortiz Rojo, David KDPOF KDPOF
Comment Type E Comment Status R THP Sentence is not clear, and it is redundant with the contents of the state diagram. THP THP	Comment Type E Comment Status R The Sentente is not clear, and language is colloquial. It should be highlighted that changes in the tx PHD must be coherent.
SuggestedRemedy Remove it or change by: "PHD information shall be updated per Transmit Block basis, the fields PHD.TX.NEXT.* shall always carry information according to the next Transmit Block. Response Response Status C REJECT.	SuggestedRemedy Change the sentence to: "Although this state diagram is asynchronous with local PHY transmission, the PHD information generated by it shall be updated in the PHD of the next available Transmit Block. The integrity of the information that is updated in a given state and spans across several fields should be guaranteed, that is, the PHD changes that are produced in a given state should be updated in the same transmit PHD"
All the comments received to subclause 114.3.2.2 are addressed in text proposed in	Response Response Status C
attached file "perezaranda_GEPOF_5_0715"	REJECT.
This sentence can be eliminated with the new proposed THP REQ state diagram, that is more accurate. Cl 114 SC 114.3.2.2.2 P74 L 15 # 447 Ortiz Rojo, David KDPOF Comment Type E Comment Status A THP Sentence 'However, let us note that until the last THP" is not clear. SuggestedRemedy	All the comments received to subclause 114.3.2.2 are addressed in text proposed in attached file "perezaranda_GEPOF_5_0715" Accepted that sentence is not clear and language colloquial. However, the comment and suggested remedy trigger an important fault in the state diagram. That is, it is not specified when the fields are updated on transmitted PHD. Moreover, the state diagram is not clear to specify how the receiver matches the THP coefficients used by the remote PHY transmitter.
Replace it by: "However the local PHY is not allowed to make a new THP request until the previous THP request has been handled by the link partner, even if a new set of coefficients is available from the estimator (condition new"	C/ 114 SC 114.3.2.3 P77 L46 # 449 Ortiz Rojo, David KDPOF KDPOF
Response Response Status C ACCEPT IN PRINCIPLE. All the comments received to subclause 114.3.2.2 are addressed in text proposed in attached file "perezaranda_GEPOF_5_0715"	Comment Type E Comment Status A Language is colloquial. SuggestedRemedy Replace the sentence by: "The value of the threshold and the information used to estimate the noise variance is implementation dependent and not covered by this standard."
	Response Response Status C ACCEPT.

<i>Cl</i> 114 <i>SC</i> 114.5 Ortiz Rojo, David	<i>Р</i> 88 КDPOF	L 1	# 450	C/ 115 SC 115.2.5 Ortiz Rojo, David	5.1 <i>P</i> 105 KDPOF	L 33	# 453
Comment Type E Figure 114-45: During normal operation figure, at the top-left co normal interframe or et SuggestedRemedy	·	shown. This	should be changed to	Comment Type E Sentence not clear. SuggestedRemedy Replace it by:	Comment Status A does not guarantee that rx_sig ablish the link"	nal provides h	EEE and PMD interface
Replace 'normal interr of the picture. Response ACCEPT.	ame' by 'normal interframe or Response Status C	ethernet pack	ets' at the top-left corner	Response ACCEPT. Cl 114 SC 114.1.4	Response Status C		# 454
the number of symbols SuggestedRemedy	P94 KDPOF Comment Status A is test modes the number befor is, not the type of symbols. ally transmit zero ({0}) symbol smit {0} symbols" Response Status C	0,	# 451	On the other hand R SuggestedRemedy	Yazaki corpo Comment Status A acted to the Transmitter. eceiver is connected to the Red itter and Receiver of the one si Response Status C	ceiver.	
ACCEPT. <i>Cl</i> 114 SC 114.9 Ortiz Rojo, David <i>Comment Type</i> E Sentence is not clear. <i>SuggestedRemedy</i>	P94 KDPOF Comment Status A	L 53	# 452	Cl 114 SC 114.2.4 Tajima, Takayuki Comment Type E Figure 114-30 typo:"multiplerer" SuggestedRemedy Replace by "multiple	Yazaki corpo Comment Status A	L 24 ration	# 455
	by: ive delays are not independer nly the total delay from GMII to <i>Response Status</i> C			Response ACCEPT.	Response Status C		

<i>Iissing parenthesis.</i>			Comment Type E Comment Status R
			The (LOP) describing definiton is not correct. Average Optical Power(LOP) measurement
			SuggestedRemedy Launch Optical Power(LOP) measurement
			Response Response Status C
sponse Status C			REJECT. Rejected in favor of comment #477
P 106 Adamant Co.,	L 41 Ltd.	# 457	C/ 115 SC 115.5.9 P114 L9 # 460 Yasuhiro, Hyakutake Adamant Co., Ltd. # 460 10
			Comment Type E Comment Status A EAF Reference EAF measurement method IEC document number is not correct. IEC 61300-3-54 EAF
one article.			SuggestedRemedy IEC 61300-3-53
sponse Status C			Response Response Status C ACCEPT IN PRINCIPLE.
nments received during	WG ballot.		Add to subclause 1.3:
P 107 Adamant Co.,	L 19 Ltd.	# 458	"IEC 61300-3-53, Fibre optic interconnecting devices and passive components – Basic test and measurement procedures—Part 3-53: Examinations and measurements – Encircled angular flux (EAF) measurement method based on two-dimensional far field data from step
			index multimode waveguide (including fibre)"
			Correct text of reference to 60793-2-40 to match IEC title, as:
``			EC 60793-2-40:2009, Optical fibres –Part 2-40: Product specifications – Sectional specification for category A4 multimode fibres
Power(LOP).			
sponse Status C			
	Adamant Co., comment Status R one article. sponse Status C mments received during P107	P106 L41 Adamant Co., Ltd. onment Status one article. sponse Status C mments received during WG ballot. $P107$ L19 Adamant Co., Ltd. onment Status R on is not correct. ower(LOP). Powser Status C	P106 L41 # 457 Adamant Co., Ltd. <i>adamant Status</i> R one article. <i>sponse Status</i> C mments received during WG ballot. P107 L19 # 458 Adamant Co., Ltd. <i>priment Status</i> R on is not correct. <i>power</i> (LOP). <i>sponse Status</i> C

C/ 115 SC 115.8 P117 L # 461	C/ 115 SC 115.5.9 P115 L1 # 464
Yuki, Hayato	Takahashi, Satoshi POF promotion
Comment Type T Comment Status R	Comment Type T Comment Status A EAI
This comment is added by the comment editor to the database of D1.1 revision to reflect the comments send by Yuki-san at 3rd July 2015 in form of attachment "Comments to	 i) Only the lower bound limit that yields the worst performance is sufficient to be specified. ii) The same EAF can be applied for all link types at TP3.
P8023.bv_D1.1(YUKI).docx". The understanding by comment editor is that the text of subclauses 115.8 and 115.10 in D1.1 regarding to POF clabling is considered insufficient	SuggestedRemedy Change existing sentence to "The MPD measured per EAF at TP2 or TP3 shall be upper
by the commenter. Because content of attachement is substantially technical, the type of comment is considered T by comment editor.	than the lower bound limits defined in Figure 115-3 and 115-4."
SuggestedRemedy	Response Response Status C ACCEPT IN PRINCIPLE.
Best guessing by comment editor: to add text provided in "Comments to	
P8023.bv_D1.1(YUKI).docx" to subclauses 115.8 and 115.10.	i) is accepted
Response Response Status C REJECT.	 ii) and sentence of suggested remedy are rejected in favor of remedy suggested to comment #401.
Cabling/connector specification is out of the scope of this draft.	The measurement results show that EAF specification at TP3 are substantially different for types A, B and types Cx.
C/ 115 SC 115.10 P121 L 26 # 462 Takahashi, Satoshi POF promotion POF POF	Round-robin measurements are pending. As a function of results carried in PMD ad-hoc group, the table layout and content may suffer modifications.
Comment Type E Comment Status A	Cl 115 SC 115.5.9 P115 L29 # 465
The IEC document number in the column "Value/Comment" is not correct.	Takahashi, Satoshi POF promotion
SuggestedRemedy Change existing sentence to "Duplex cable with multimode optical fiber sub-category A4a.2 as specified in IEC 60793-2-40"	Comment TypeTComment StatusREAILines 29 to 44:i) Only the lower bound limit that yields the worst performance is sufficient to be specified.
Response Response Status C	ii) The same EAF can be applied for all link types at TP3.
ACCEPT.	SuggestedRemedy
Cl 115 SC 115.4.1 P109 L 54 # 463 Takahashi, Satoshi POF promotion	 i) Change "Figure 115-4 - EAF template specification at TP3. Type A, B" to "Figure 115-4 - EAF template specification at TP3. Any link type" ii) Delete "Figure 115-5 - EAF template" and "Figure 115-6 - EAF template".
	Response Response Status C
Comment Type T Comment Status A	REJECT.
Table 115-3: Maximum center wavelength shall be 665 nm, as discussed at the last PMD ad-hoc meeting.	See comments #464 and #401
SuggestedRemedy Change "670" to "665"	
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 Z/withdrawn SORT ORDER: Comment ID

Cl 115 SC 115.5.9 P114 L9 # 466 Takahashi, Satoshi POF promotion	C/ 00 SC P L # 469 Grow, Robert RMG Consulting
Comment Type E Comment Status A EAF The IEC document number is 61300-3-53	Comment Type E Comment Status A Front matter is not consistent with P802.3 draft.
SuggestedRemedy Change "61300-3-54" to "61300-3-53"	SuggestedRemedy Update frontmater Introduction to current 802.3 template.
Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT.
See response to comment #460	C/ 00 SC 0 P L # 470
CI 115 SC 115.8 P117 L4 # 467 Takahashi, Satoshi POF promotion Comment Type E Comment Status A "A4a.2" is a sub-category, not a type. SuggestedRemedy Change "types A4a.2" to "sub-category A4a.2" Response Response Status C	Grow, Robert RMG Consulting Comment Type E Comment Status PICS header is not consistent with P802.3 draft. SuggestedRemedy Update headers in Clauses 114 and 115 to be consistent. Response Response Status C ACCEPT.
ACCEPT. C/ 114 SC 114.3.2.1.1 P65 L32 # 468 Grow, Robert RMG Consulting	C/ 114SCP38L47# 471Grow, RobertRMG ConsultingComment TypeEComment StatusA
Comment Type E Comment Status A The statement: 'The criteria to determine reliable PHD reception are left to the implementer and may be based on the correctness of the CRC-16 as defined in 114.2.3.1.' is not consistent with the 114.2.3.1.4 statement: 'From then on, the correctness of each received PHD block is determined by evaluating the CRC-16' SuggestedRemedy	Not a good use of the term symbols. Improve readability. SuggestedRemedy Figure 114-5. S1 and S2 pilots, header data, and payload data symbols are generated in a different manner, so the four symbol streams are multiplexed Response Response C
Delete the sentence as also recommended in PMA PICS comment. <i>Response</i> ACCEPT. <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i>	ACCEPT IN PRINCIPLE. Previous sentence says "three" paths, which may seem contradictory, and provides redundant information. Suggested remedy: "Transmit Blocks are generated as shown in Figure 114–5. S1 and S2 pilots, header data,
	and payload data symbols are generated in a different manner, so the four symbol streams are multiplexed to produce the temporal order indicated in Figure 114–4"

C/ 114 SC 114.2	P L	# 472				
Grow, Robert	RMG Consulting		14.2.3.3, p.42, I.40 The BCH encoder in Figure 114-9 shall systematically encode 720			
Comment Type TR Co	mment Status A	PICS	nformation bits into 896 code bits.			
	aced nor properly placed to generate initialization of a register, but there is		PICS PC6a Physical header BCH encoder 114.2.3.3 Encode 720 information bits into 96 code bits M			
SuggestedRemedy						
	ment for each functional block in Figu ed to eliminate the insertion letters e.c	re 114-5. (PICS item P/	14.2.3.4, p.43, l.11 – The 896 bits from the BCH encoder shall be mapped into 1792 2- AM symbols.			
	1 signal within the sub-block shall be do-random sequence of length LS1 =	jenerated as follows. m	PICS PC6b Physical header modulation and scaling 114.2.3.4 Physical header nodulated and scaled as specified. M			
	r[0] through 14 r[24], is initialized		14.2.4.1.2, p.48, l.4 — The 64B/65B implementation shall be consistent with the following prmal definition.			
p.40, l.16 – binary), PICS PC3 Pilot S1 generatio	on 114.2.2.1 Pilot S1 generated as	specified M	PICS PC6c 64B/65B encoding 114.2.4.1.2 Consistent with formal definition M			
follows. The series of S2 pilo pseudo-random sequence of	lot S2 sub-blocks of a Transmit Block t sub-blocks in a Transmit Block cont 1664 256-PAM symbols. lynomial is 1+x22+x25 and the shift re	shall be generated as be ain chunks from a se ge ini	114.2.4.2, p.49, I.20 – The 705 600 bits per Transmit Block from 64B/65B encoding shall be scrambled prior to transmission. The binary scrambler applies a pseudo-random binary sequence (PRBS) by modulo-2 addition as shown in Figure 114–18. The PRBS is generated by an LFSR whose generator polynomial is $1+x^22+x^25$. The shift register is initialized			
PICS PC4 Pilot S2 generation	on 114.2.2.1 Pilot S1 generated as	specified M PI	PICS PC7 Data payload scrambler 114.2.4.2 Data payload scrambled as specified M			
Cyclic Redundancy Check bit decoding, as shown in Figure bits as follows. CRC-16 gene	04 PHD bits from "Header Builder" are s (CRC-16) for extra error detection of 114–10. The check sum shall be co eration uses a Linear Feedback Shift I FSR is 1+x2+x5+x6+x8+x10+x11+x1 S S15) are initialized	appended with 16 sp apability after BCH nputed from the PHD PI Register (LFSR). The sr	14.2.4.3.1, p.50, l.47 – The information bits to be encoded as an MLCC codeword shall b plit by an MLCC demultiplexer into two levels. PICS PC7a Coded 16-PAM MLCC demultiplexer 114.2.4.3.1 Scrambled data path bits plit into two levels as specified M			
	on 114.2.3.1 Check sum generated		114.2.4.3.2, p.51, I.31 – The data path BCH encoder in Figure 114-19 shall generate information bits as follows.			
		11	114.2.4.3.2, p.52, I.9 – The delay elements are initialized			
transmission. The binary scra modulo-2 addition as shown i	0 bits from the CRC-16 encoder shal ambler applies a pseudo-random bina n Figure 114–11. The PRBS is gener 2+x25. The shift register is initialized	ry sequence (PRBS) by ar ated by a LFSR whose	PICS PC8 Data path BCH encoder/shortening 114.2.4.3.2 Information bits encoded and shortened as specified M			
	-	11	14.2.4.3.3, p.52, l.32 – coded bits shall be mapped symbols as follows.			
specified M	scrambling 114.2.3.2 CRC-16 output		PICS PC8a Gray mapping 114.2.4.3.3 BCH endoded data gray mapped as specified			
TYPE: TR/technical required ER/	editorial required GR/general require		Comment ID 472 Page 96 of 7			

SORT ORDER: Comment ID

Page 96 of 100 15/07/2015 16:23:15 114.2.4.3.4, p.55, I.47 -- . . . mapper shall be further processed . . .

PICS PC8b First lattice transformation 114.2.4.3.4 Gray mapped data processed with specified latice transformation $\,$ M $\,$

114.2.4.3.5, p.57, I.21 -- After performing the first lattice transformations, lattice transformed symbols from the two levels shall be added thus performing the coset partitioning over lattice Z2 and the final labeling.

PICS PC8c Lattices addition 114.2.4.3.5 Level 1 and level 2 symbols are added as specified $\,M$

114.2.4.3.6, p.57, I.51 -- 2D symbols from the lattice adder, \ldots respectively, shall be further transformed . . .

PICS PC8d Second lattice transformation 114.2.4.3.6 Lattice adder output symbols transformed as specified $\,M$

114.2.4.3.7, p.58, I.52 -- Data path symbols shall be processed by the RZ^2 to PAM multiplexer as illustrated in Figure 114–30.

PICS PC8e $\,$ RZ^2 to PAM mulitplexer $\,$ 114.2.4.3.7 Data path symbols multiplexed as specified $\,$ M $\,$

114.2.4.4, p.59, I.29 -- The 16-PAM encoded symbols shall be scrambled . . .

114.2.4.4, p.59, I.35 -- . . . the shift register is initialized . . .

PICS PC9 Data payload scrambler 114.2.4.4 16-PAM symbols scrambled as specified M $\,$

114.2.4.5, p.60, I.32 -- The 16-PAM symbols from the symbol scrambler shall be precoded and scaled as follows. A Thomlinson-Harashima precoderis shown in . . .

PICS PC9a Data payload THP and scaling 114.2.4.5 Payload data is THP precoded and scaled as specified $\,M$

Response Response Status C

ACCEPT IN PRINCIPLE.

Accept all the suggested remedies, with minor corrections and considering some improvements:

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 Z/withdrawn SORT ORDER: Comment ID

* PICS PC4 Pilot S2 generation 114.2.2.1 Pilot S2 generated as specified M

* To define only a PICS for all the MLCC encoder (coded PAM16) based on golden vectors provided in a an annex (binary input, output symbols for a code word) and eliminate the PICS related to internal blocks of the encoder (demux, mappers, BCH encoder, etc).

Editor to generate additional changes to documment consistent with the approach recommended.

C/ 114	SC 114.1.3	P36	L 31	# 473
Grow, Robe	rt	RMG Consulting		

Comment Type TR Comment Status A

Implementation of the MDIO should be optional, not mandatory for 1000BASE-H.

SuggestedRemedy

Any PHY type using 1000BASE-H shall provide the management capabilities referenced in this clause and defined in Clause 45. An optional implementation of the MDIO Interface shall provide access to the 1000BASE-H management registers.

PICS

delete MGT major capability PC0a 1000BASE-H management Provide specified management capabilities M PC0b MDIO interface Use optional Clause45 MDIO for register access O

Response Status C

Response

ACCEPT.

Comment ID 473

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C/ 114 SC 114.3	Р	L	# 474		established.			
Grow, Robert Comment Type TR C	RMG Consu	ulting		PICS	PICS PM8 Payload data sub-block content 114.3.2.1.2 Content as specified by PHY TX control state diagram			
Shalls for the PMA should b		sponding PICS up	odates.					
SuggestedRemedy 114.3.1, p.61, I.29 The Pl	ID shall consist of the	fields detailed in 1	「able 114–2.		114.3.2.1.3, p.66, l.16 Link status shall be determined as specified by the link monitor state diagram. The state diagram controls the value of the link_status state variable as illustrated in Figure 114–36.			
Table 114-2, p.63, I.33, PHD.RX.LINKSTATUS The local PHY uses Table 114-2, p.63, I.43, PHD.RX.HDRSTATUS The local PHY uses Table 114-2, p.64, I.10, PHD.RX.LINKMARGIN local PHY uses this					I.22 23 The value of the rem_rcvr_status variable is assigned			
Table 114-2, p.64, I. IU, PHI	J.RA.LINKMARGIN	local PHY use	stris		PICS PM9 Link status 114.3.2.1.3 As determined by the link monitor state diagram M			
PICS PM0a PHD content Delete PM3, PM4.	114.3.1 PHD conten	t as detailed in Ta	ble 114-2 M		114.3.2.1.4, p.68, l.6 from the PMD, if the local PHY			
	<i></i>				p.68, I.7 NOT_OK), this is indicated			
114.3.2.1.1, p.62, I.47 Co establish symbol synchroniz					PM9a			
PICS PM2 Course timing recovery 114.3.2.1.1 Establish symbol synchronization using pilot S1 signal.					The criteria to determine reliable PHD reception are left to the implementer and may be based on the correctness of the CRC-16 as defined in 114.2.3.1. When the PHD is reliably			
PICS PM5 recover -> reco	very				received, correct reception of PHD by the remote PHY shall be as indicated in REMPHD.RX.HDRSTATUS, see 114.3.2.			
					PICS PM6a PHD reception 114.3.2.1.1 After equilization estimation, receive link partner PHD and determine if reception is reliable M			
PICS PM6 Equalizer traini equalizers using received S		successful fine tim	ning recovery, train		PM6b Link partner PHD reception 114.3.2.1.1 When PHD is reliably received, link partner PHD reception as indicated in REMPHD.RX.HDRSTATUS			
114.3.2.1.1, p.65, l.29 Re 114.3.2.1.4:	move redundant text a	nd move any miss	sing requirement to	I				
Once the equalizers have b	een properly estimated	properly estimated, the PHY receiver processes ea	er processes each	PHD	Response Response Status C			
from the link partner, and de	etermines if PHD recep	PHD reception is reliable. The state diagrams that are described in 114.3.2.1.4.			ACCEPT IN PRINCIPLE.			
		bcu in 114.0.2.1	т.		Accept all the suggested remedies, except the ones indicated below.			
	114.3.2.1.2, p.65, I.53 Add: Payload data subblock content shall either be normal interframe or encoded GMII transmit data.				* 114.3.2.1.1, p.65, I.29: PHD reception has to be reliable in both extremes of the link, which is not indicated in the suggested text.			
p.66, I.5 it generates I	DB.CTRL				"Once the equalizers have been properly estimated, the PHY receiver processes each PHD from the link partner, and determines if PHD reception is reliable in both directions. The			
p.66, I.7 GMII transmi	t stream is mapped				state diagrams that monitors the reliability of PHD reception are described in 114.3.2.1.4."			
p.66, I.9 the 64B/65B	PCS encoder is discor	nected until the b	idirectional link is r	e-				
TYPE: TR/technical required El COMMENT STATUS: D/dispate	R/editorial required GF	२/general required	I T/technical E/ed	itorial G/ge ben W/writt	eneral Comment ID 474 Page 98 of 10 tten C/closed Z/withdrawn 15/07/2015 1			

SORT ORDER: Comment ID

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* 114.3.2.1.2, p.65, I.53: not clear where it should be added.

* p.66, I.9: the text may suggest that the 64B/65B encoder is completely disconencted, what is not true. It is only disconnected from GMII transmit stream, but it remains connected to binary scrambler to generate PDB encoding normal interframe. Therefore, rejected. License to improve grammar.

* 114.3.2.1.4, p.68, l.6: it is not conditional, it is a fact indicated by the state diagram. Proposed text:

"Upon reset or disconnection of the PCS from the PMD, the local PHY indicates that it cannot properly receive PHD blocks .."

*Reject PM6a and 6b. Only one PICS entry for the whole PHY RX control state diagram. Editor to generate additional changes to documment consistent with the approach recommended.

-				
C/ 00	SC 0	P 13	L7	# 475
Serizawa	, Naoshi	YAZAKI Corpo	oration	

conzana, nacom

Comment Type E Comment Status A

"22. Recommendation Sublayer (RS) and Gigabit Media Independent Interface (GMII)" Title in the original document at section 22 is wrong

Original title of section 22: Recommendation Sublayer (RS) and Media Independent Interface (MII)

--> no description of "Gigabit" and "GMII" in section 22

SuggestedRemedy

Delete "Gigabit" and replace to "MII", because GMII is described in section 35, or Delete line $\ensuremath{\mathsf{7}}$

Response Status C

(Do we need to refer MII in our document?)

Response

ACCEPT IN PRINCIPLE.

Accept to correct title of clause 22.

Clause 22 also includes definition of a management interface in form of a set of registers accessable through a serial bus interface. Several Gigabit PHYs still use this management interface. Anyway, 1000BASE-H uses Clause 45 MDC/MDIO, and C/22 is going to not be included in 802.3bv draft.

C/ 115	SC	115.4.1	P 110	L1	# 476
Serizawa,	Naoshi		YAZAKI Corp	oration	
Comment	<i>Type</i> 115-3	Е	Comment Status A		
		t Internatio	onal System of Units (SI)		

SuggestedRemedy

Apply SI units or if it will be used "dBc", it will be needed the definition what 0 dBc is.

Response Response Status C

ACCEPT IN PRINCIPLE.

Add table foot note to define dBc:

"dBc (decibels relative to the carrier) figure is used to give the power ratio of an harmonic signal to a carrier signal, expressed in decibels. If the dBc figure is negative, then the harmonic signal strength is less than carrier signal strength."

In P113, L30, modify text to not be dependent on dBc. Also for more precise wording, as: "The 2nd order harmonic distortion (HD2) shall be measured as the power ratio of the 2nd harmonic signal at $2 \cdot Fc$ to carrier signal at Fc, expressed in decibels. In the same way, the 3rd order harmonic distortion (HD3), as the power ratio of signal at $3 \cdot Fc$ to signal at Fc. The resolution bandwidth (RBW) of the spectrum analyzer shall be less than 1 MHz."

C/ 115 S	C 115.4.2	P110	L 52	# 477
Serizawa, Naoshi		YAZAKI Corporation		
Comment Type	e E	Comment Status A		

Average optical power (LOP) Improper abbreviation

SugaestedRemedv

Substitute all "LOP" to "AOP" (or to use same word, either "average launch optical power") or "average optical power")

Remark: It is described "Average launch optical power (LOP)" in Table 115-3.

Response Response Status C

ACCEPT IN PRINCIPLE.

LOP (launch optical power) is not exactly correct for receiver (TP3), since the power is not launched by any device, but is the output from the fiber.

It is convenient to replace LOP with AOP in all the clause 115. AOP is correct for TP2 and TP3. Also modify PICS section.

C/ 114	SC 114.10	P96	5	L 1	# 478
Pérez-Arano	da, Rubén	KDPO	F		
Comment T Elimina clause t	te "and basebar	Comment Status nd medium" from title		ection. It does no	t correspond to
SuggestedF Elimina	Re <i>medy</i> te "and basebar	nd medium"			
Response ACCEP	РТ.	Response Status	С		
C/ 115 Pérez-Arano	SC 115.2.5.1 da, Rubén	<i>P</i> 10 KDPO	-	L 35	# 479
	jective is not de	Comment Status fined in either clause is in other 802.3 projec	114 or 115.	view (114.1)	
a) comp b) line t	P35, L28, before bliance with the ransmission tha	e the first feature, the specifications for the t supports full duplex ror Ratio (BER) object	GMII (Clause operation;	35);	-12;
Add ref	erence to 114.1	.1 at P105,L35			
Response REJEC	Т.	Response Status	С		
C/ 115 Pérez-Arano	SC 115.10	Р 11 КDРО	-	L 20	# 480
Comment T	уре Т	Comment Status ninated from title of P	A	t does not corres	pond to clause
SuggestedF Elimina	Remedy te (Red LED)				
		Response Status			

To be agree with the clause title.