CI 00	SC	Р	L	# 374
Thompson,	Geoffrey	Nortel		

Comment Type TR Comment Status D

I continue to believe that many of the technically sound concepts included in this proposal, while suitable for the access market, are fundamentally at odds with the underlying principals of Ethernet embodied in IEEE Std 802.3 to date. While we have made changes in the past they have been all realativley minor and most of them have worked out. Some, in retrospect, while they seemed like a good idea at the time have set bad precedents for later work. Across it all Std 802.3 has remained conceptually pretty consistent. P802.3ah has several significant departures from that conceptual consistency. I believe that the precedents they set will cause significant confusion over the long term and destroy the conceptual consistency of Ethernet as it is known.

The specific areas that concern me most are:

Loss of the peer relationship to a provider - customer asymmetry Unidirectional transport

Loopback

New non CSMA/CD mechanisms for shared media access arbitration. OAM mechanism that are not consistent with the earlier Management Low speed operation not consistent with prevalent perception of Ethernet. The requirement for and complexity of ranging & discovery protocols Requirement for additional levels of station addressing

SuggestedRemedy

Revise the PAR and the draft so that what is currently designated as P802.3ah can be approved as a separate full/new standard that is approved as and will remain a separate standard from IEEE Std 802.3. This will allow this project and its provider oriented successors/amendments to more freely meet the requirements of this significantly different marketplace and set of customers.

Pursue further steps to approval, both editorially and procedurely as a separate standard.

Proposed Response Response Status W

PROPOSED REJECT.

This issue has been discussed several times in the past

CI 00

P L

120

Morales Barroso, Jose Comment Type **T**

SC

L&M Data Communica

Comment Status D

It is very important for Ethernet over voice-grade copper connections to supply power either from the Central Office (CO) like in the European ISDN, or from the switch/hub in LANs. This feature would have many advantages, not only for service providers, but also for users of 10PASS-TS or 2BASE-TL in LANs and campus networks; since it enables users to connect remote devices. For example, the cameras used in video-monitoring systems would need only one pair to transport the signal and the power, rather than the four pairs specified now in 802.3af. This would increase the link length from 100 m to 2 km.

SuggestedRemedy

The specifications of 802.3af should be extended to include voice-grade copper, in order to make the changes required.

Clause 31 should be modified to something like this: "DTE powering is intended to provide both data transfer and power feed to 10BASE-T, 100BASE-TX, 1000BASE-T, 10PASS-TS or 2BASE-TL devices".

As a reference, the ISDN and HDSL connections in Europe supply power from CO to the CPEs through POTS cables.

Proposed Response Response Status W

PROPOSED REJECT.

The suggestion may make a great new project, however, extending af is out of the scope of EFM

C/ 00	SC	Р	L	#	121
Morales Bar	roso, Jose	L&M Data Comm	nunica		

Comment Type T Comment Status D

The large number of connections based on EFM that will exist in the future makes it very advisable to apply power management procedures (copper & optical fiber) in order to eliminate "ghost power", because the average use of this connections is less than 5 hours/day (< 20% of the total time). For example, with 200 million users, the energy saving would be of the order of 14 TWh/year, equivalent to 1,4 Billion \in (<>1,75 Billion \$).

SuggestedRemedy

There is a power management specified in Std 802.11-1999, Clause 11, Subclause 11.2, that will serve as a basis to implement the control via the OAM protocol or with a specific procedure. In order to reduce the power consumed by the equipment, diverse components of these equipment can become disconnected during periods of inactivity.

Applying power management to all the Ethernet equipment (not only EFM) would result in a huge energy saving, due to the high number of devices that use this technology.

Proposed Response Response Status W

PROPOSED REJECT.

Again, while this may be a good suggestion for a new project it is out of the scope of EFM's objectives.



C/ 00	SC		Р	L	# 307	C/ 00	SC		Р	L	# 99303
Dawe, Pier	ers		Agilent			Dawe, Pie	rs		Agilent		
Comment	Туре	TR	Comment Status D			Comment	Туре	TR	Comment Status R		D3.0 #343
Ethern remed http://v remed	net?' wit dy.' Spe www.iee dies are	th a response acific rem ae802.org filed aga	343 against D3.0, 'Are we su onse of 'REJECT. The comm edies were filed in D3.0 comm g/3/efm/public/comments/d3_ inst D3.1 clause 66, 57, 56 a	nenter is encour ments 313 380 v _0/pdfs/dawe_ 2 nd the front mat	aged to file a suggested with attachment _ 0104.pdf . Revised ter (99). The current	This r which if the	ather va fouled mplicat	ague com up regula tions of th	't messed up the legacy Etherr ment is to replace an old TR w ar Ethernet, and I've submitted le changes and additions in EF luding 10G Ethernet.	hich was trig it to encoura	ge all readers to consider
			a mess of traditional Etherner r for some of the suite of PM			Suggeste	dReme	dy			
industr LX10.	trial, cor These	e and me	etro) Ethernet use. In particul t requirements do no service	lar, 100BASE-L	X10 and 1000BASE-	Mana	ers and gement	stuff still	s still OK for legacy Ethernet? OK? 000BASE-LX10 not tied to any	nublic notu	orko oposifia
Suggested See ot		<i>dy</i> mments.				requir No da	ements mage t	? o 10G?			
Proposed I			Response Status W IN PRINCIPLE.			No ou Other		current N	/AC, RS, PCS, PMAs in subsc	riber access	s networks?
-		ssed on N	-			Proposed REJE		nse	Response Status U		
C/ 00	SC		Р	L	# 405	The c	ommen	iter is end	couraged to file a suggested re	medy.	
Grow, Rob	pert		Intel			C/ 00	SC		Р	L	# 251
Comment	Туре	Е	Comment Status D			King, Nea			Infineon Techr	ologies	
		sfied and #537, #54	will sign off my following D3. 3.	.0 TR comments	5:	Comment Pleas		TR ence comi	Comment Status D ments by Burkart Schneiderhei	nze (Infineo	n).
Becau TR.	use #528	8 is most	ly satisfied, I will sign it off an	d replace it with	a new more specific	Suggeste		•	ed in the comments by Schneic	larhainza	
Suggested	dRemea	dy						• •		lenneinze.	
	Deener	190	Response Status W			Proposed PROF	'		Response Status W		
Proposed I	Respon	130									

D3.0 #795

C/ 00	SC	Р	L	#	99300
Thompso	n, Geoffrey	Nortel			

Comment Type TR Comment Status A

The entirely new concept to 802.3 of doing shared access via an entirely new access protocol is hidden through lack of use of the proper terminology to describe what is going on. The P2MP portion of the proposal is, in fact, a new shared access protocol of the TDMA variety yet none of the following standard terms appears appear anywhere in the description thereof:

multiple access access method

time division

TDMA

access domain

MAC protocol

In fact the only mentions of a "shared LAN" is the claim that P2MP is emulating a shared LAN rather than admitting it is one!

SuggestedRemedy

Come clean. P2MP is at its most basic level a master-slave TDMA LAN. Revise text to describe P2MP fully as such using established 802 terminology for multiple access shared LANs.

Proposed Response Response Status U

ACCEPT IN PRINCIPLE.

Master-slave relationship is described in 64.3.1. item h.

Modify item d in 64.3.1 as follows:

Multiple MACs operate on a shared medium by allowing only a single MAC to transmit upstream at any given time across the network using a time-division multiple access (TDMA) method.

CI 00	SC	Р	L	# 372
Thompson, C	Geoffrey	Nortel		

Comment Type TR Comment Status D

There is no provision in the draft to assure that the required disclaimer text (Ref: SB Ops Manual 5.9.3) will be included in the published standard.

SuggestedRemedy

Make provision in the next version of the draft to include the appropriately placed following text:

"At lectures, symposia, seminars, or educational courses, an individual presenting information on IEEE standards shall make it clear that his or her views should be considered the personal views of that individual rather than the formal position, explanation, or interpretation of the IEEE."

Proposed Response Response Status W

PROPOSED REJECT.

Appropriate text will be added by IEEE-SA staff editor prior to publication

CI 00	SC		Р	L	# 99301
Grow, Robe	ert		Intel		
Comment 7	Гуре	TR	Comment Status A		ALL D3.0 #528
Inappro	priate	uses of	error rate.		

SuggestedRemedy

Search for error rate and replace with error ratio to be consistent with similar change implemented by IEEE Std 802.3aj-2003.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

Where the quantity is errors per bit change to ratio. Where the quantity is error per unit time then it can remain as rate.

Cu duplex D3.0 #500

C/ 00	SC	Р	L	# 99302
Grow, Ro	bert	Intel		

Comment Status A Comment Type TR

Full-duplex is not used correctly. A section that illustrates this well is 56.1 (bottom of page 158). P2MP does not use full duplex links -- it is a passive star.

EFM copper confuses the existing uses of full-duplex and half-duplex (see 1.1.1, 1.1.1.1). 1.1.1.2, 1.4.135, 1.4.139, 4.1.1, 4.1.2.1.1, etc.) In the published standards, full-duplex text generally is written with the assumption that CRS and COL do not need to be implemented in full duplex mode.

Similar terms are used interchangably or linked. For example "full duplex" as shorthand for "full duplex mode". (802.3ah. page 24 line 13 and 17). full duplex link (802.3, 4.1.1) and full duplex operation being synonomous with full duplex mode(802.3, 4.1.1) and MAC full duplex mode linked with an underlying full duplex PMD link).

The base

SugaestedRemedv

Harmonize use of full duplex and half duplex with the published standard. I believe this requires a full search of the base documents to make sure text does not contradict functionality exploited by EFM.

Most of the conflicts with EFM copper uses will require base document changes.

I believe full duplex and half duplex should not be used in P2MP descriptions except for describing full duplex emulation or when specifically referencing a mode as described in the base document.

Proposed Response Response Status C

ACCEPT IN PRINCIPLE.

The first paragraph of the comment is factually incorrect. P2MP does not use a passive star topology like 10BASE-FP. P2MP does provide simultaneous full duplex transmission on a single strand of fiber via wavelength division multiplexing.

Regarding the second paragraph,

On p 318, line 50, change "full duplex operation" to "simultaneous transmission and reception without contention".

Check other instances of full or half duplex in clause 61 and reference Annex 4A wherever reference is made to the full-duplex MAC.

The third paragraph of the comment does not cite any errors or deficiences in the draft as it refers to material that is unchanged from the base standard.

CI 00	SC O	P1	L 35	#	99304
James, Davi	d	JGG			

Comment Status A Comment Type TR

Excessive capitalization.

This is just one example. Instruct your editors to eliminate capitalization on everything except proper nouns and the first word of headings and sentences.

The profuse use of capitalization, for emphasis, field name delineation, acronyms, etc. is unnecessary and distracting. With so many capitals, its hard to tell when one sentence or field name begins and another one ends.

Start at the front, work through the end, and have a policy in mind. Simply repeating the 802.3 mistakes is not sufficient.

SuggestedRemedy

for network Operations, Administration and Maintenance (OAM) is included ==>

for network operations, administration and maintenance (OAM) is included

Proposed Response Response Status U

ACCEPT IN PRINCIPLE.

Will try to improve on capitalization

C/ 00	SC O	P 10	L 1	# 99305
James, Da	avid	JGG		
Comment	Type TR	Comment Status R		D3.0 #730

Comment Status R Comment Type TR

Unnecessary page, not part of the specification.

This is normally provided (or so says Tom Alexander) for the convenience of editors when the document is in FrameMaker source. Its not needed in pdf, and (in fact) could lead to some interesting translation ambiguities.

SugaestedRemedv

Remove this and following page.

Proposed Response Response Status U

REJECT.

This has usually been added to 802.3 docs.

D3.0 #726

Cl 00 S James, David	SC O	Р 2 JGG	L1	# 99306	C/ 00 SC 00 Dawe, Piers	Р 4 Agilent	L 14	# 629
change.	mark usage	Comment Status A page is blank, with no notice of	-	-	SuggestedRemedy	Comment Status D lause 67 and Annex 58A throu	-	
		ot addressed when marked as s taken this time.	editorial, in prev	ious working group	Clauses 56 through 67 Proposed Response	7 and Annexes 58A through 67 Response Status W	7A (like p3 line 50))
SuggestedRer Either:	medy				PROPOSED ACCEPT	,		
1) Elimina	te the page ne text descr	ribing what and when will happ	pen to this page.		C/ 00 SC 00 Dawe, Piers	Р 4 Agilent	L 25	# 630
Proposed Res ACCEPT I	ponse IN PRINCIPI	Response Status U LE.			Comment Type E Missing space and co	Comment Status D		
This page added to t		er that text will be added on pu	blication. An edi	tors note can be	SuggestedRemedy " '2001provides' s/b '2	001, provides'"		
C/ 00 S Dawe, Piers	SC 00	P 1 Agilent	L 37	# 627	Proposed Response PROPOSED ACCEPT	Response Status W		
Comment Typ 10G	e E	Comment Status D			C/ 00 SC 00 Dawe, Piers	P 4 Agilent	L 29	# 631
SuggestedRer 10 Gb/s	medy				Comment Type E Wrong reference	Comment Status D		
Proposed Res PROPOSE	ponse ED ACCEPT	Response Status W			SuggestedRemedy	be '802.3ak-20xx'. Or both.		
C/ 00 S Dawe, Piers	SC 00	P 2 Agilent	L 4	# 628	Proposed Response PROPOSED REJECT	Response Status W		
Comment Type Comment		Comment Status D			Seems ok.			
S <i>uggestedRer</i> Add editor		plain this page?			C/ 00 SC 00 Dawe, Piers	P 9 Agilent	L 6	# 632
Proposed Res	ponse	Response Status W			Comment Type E 10Gb/s	Comment Status D		
Seems se		y to me. Perhaps something li	ke "Will be adde	d by IEEE upon	SuggestedRemedy 10 Gb/s			
					Proposed Response PROPOSED ACCEPT	Response Status W		

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Page 5 of 146 C/ 00

SC 00

C/ 00 SC 00 Dawe, Piers	P All Agilent	L	# 626	C/ 01 SC Schneiderheinze, Burkart	P Infineon Tecl	<i>L</i> hnologies	# 430
Comment Type E TMs and comment 74	Comment Status D			Comment Type E PMI not replaced by F	Comment Status D ME 4 times in clause 1	J	
SuggestedRemedy				SuggestedRemedy replace PMI by PME			
Proposed Response PROPOSED ACCEP	Response Status W			Proposed Response	Response Status 0		
C/ 00 SC 61.2.1.3 Cravens, George	3.3 P 364 Mindspeed	L 37	# 585	Cl 01 SC 1 Dawe, Piers	P 14 Agilent	L 54	# 264
	Comment Status D e ipg_timer and rate_matching_t			Comment Type E Shouldn't this be ANS	Comment Status D I T1? or ATIS T1?		
	opm requirement, this informatio ns of tolerance +- 100 ppm.	n doesn't beion	g nere.		'ANSI T1' or "ATIS T1' a ike similar changes to trial-us		
	ns of tolerance +- 100 ppm.			Proposed Response PROPOSED REJECT	Response Status W		
(lines 37 and 40). Proposed Response PROPOSED ACCEF	Response Status W			C/ 01 SC 1 Dawe, Piers	P14 Agilent	L 9	# <mark>263</mark>
Refered to Cu				Comment Type E Formatting	Comment Status D		
C/ 00 SC 61.2.2 Cravens, George	P 365 Mindspeed	L 39	# 586	SuggestedRemedy In the example 0F(16)	, make the 16 a subscript and	d remove the bra	ckets.
Comment Type E PMEPME stutters.	Comment Status D			Proposed Response PROPOSED ACCEPT	Response Status W		
SuggestedRemedy Change to PME.				C/ 01 SC 1 Dawe, Piers	P 15 Agilent	L 21	# 265
Proposed Response PROPOSED ACCEF	Response Status W T.			Comment Type E Broken quantity	Comment Status D		
				SuggestedRemedy Use non-breaking spa	ce between 100 and Mb/s.		
				Proposed Response PROPOSED ACCEPT	Response Status W		

/ 01 SC 1 awe, Piers	P 15 Agilent	L 45	# 266	<i>C</i> / 01 Barry, O	SC 1.3 'Mahony	P14 Intel	L 40	# 418
omment Type E Unwanted , and miss	Comment Status D			Comme Norr	nt Type T	Comment Status D need updating, to align them e text	with the docume	nts that are actually
uggestedRemedy 61 and 63.) Also rer	move from line 42				edRemedy			
roposed Response PROPOSED ACCEP	Response Status W			Cha	nge G.994.1 (200	3) to G.994.1 (2004)		
/ 01 SC 1.3	P14	L12	# 1	Cha	nge "T1.424/Trial-	Use Part 1" to "ANSI T1.424-2	2004"; delete Par	rt 3 reference.
icob Ben Ary	TELDOR Wir		"	Cha	nge T1.417 to AN	SI T1.417		
omment Type E There are new acces	Comment Status D ss cables standards, IEC 62255	series. This nev	Technical Comment w standard should be		d Response DPOSED ACCEPT	Response Status W		
mentioned in the nor	mative references.			C/ 01	SC 1.4	P15	L 22	# 634
IggestedRemedy				Dawe, P	iers	Agilent		
	indard: e and symmetrical pair/quad ca gh bit rate Digital access Telecc			Commei Unw	<i>nt Type</i> E vanted '100BASE-	Comment Status D BX-10'		
roposed Response PROPOSED ACCEP	Response Status W PT IN PRINCIPLE.			00	edRemedy nove			
	nce of this standard and add if a			•	d Response DPOSED ACCEPT	Response Status W		
01 SC 1.3 row, Robert	P 14 Intel	L 24	# 99343	C/ 01	SC 1.4	P15	L 22	# 633
omment Type TR	Comment Status A		D3.0 #512	Dawe, P	iers	Agilent		
This reference is alre	eady in IEEE Std 802.3ae-2002	, but with a year	and different title.	Comme	nt Type E	Comment Status D		
uggestedRemedy Delete or correct as a a "Change" (to 802.3	appropriate. If the document n	umber and title a	re correct, it should be		BASE-BX10 be tre	E-BX10 has changed following eated differently to 1000BASE		
oposed Response	Response Status U			00	edRemedy			
ACCEPT.					nge all or none.			
				•	<i>d Response</i> DPOSED REJECT	Response Status W		

Can the commenter please provide specific changes

C/ 01 SC 1.4 Dawe, Piers	P 15 Agilent	L 35	# 635	C/ 01 James	SC 1.4 David	Р 15 JGG	L 38	# 99344
Comment Type E 10km needs a space SuggestedRemedy	Comment Status D			Ex the	m, with no apparer	Comment Status A on. There is no point in capita nt pattern). This confuses the		
"10 km, 20 km"					rds, registers, fields stedRemedy	s, etc. are all capitalized.		
Proposed Response PROPOSED ACCEPT.	Response Status W			1.4	.xxx Aggregation g			
				==	.xxx Bandplan: > .xxx bandplan:			
				==	.xxx Coupled Powe > .xxx coupled powe			
				==	.xxx Downstream: > .xxx downstream: .			
				==	>	P2MP protocols, P2MP protocols,		
				1.4 ==	.xxx Logical Link Ic	lentifier (LLID):		
				1.4 ==	.xxx MPCP Regist	ration:		
				1.4 ==	.xxx OAM Discove	ry:		
						dministration and Maintenan	ce (OAM):	
				== 1.4		Iministration and maintenanc	e (OAM):	
				==	.xxx Optical Line Txxx optical line ter			
					.xxx Optical Netwo			
				1.4	.xxx optical networ	k unit (ONU):		

Page 8 of 146 *Cl* **01** SC **1.4**

1.4.xxx P2MP Discovery: ==>	C/ 01 SC 1.4 P 16 L 2 # 636 Dawe, Piers Agilent Ag
1.4.xxx P2MP discovery:	Comment Type E Comment Status D
1.4.xxx P2MP Discovery window:	"Grammar; comments 851, 520,790"
==> 1.4.xxx P2MP discovery window:	SuggestedRemedy "end of a link **is** closer to **a** subscriber,"
1.4.xxx P2MP Timestamp:	Proposed Response Response Status W
==> 1.4.xxx P2MP timestamp:	PROPOSED ACCEPT.
1.4.xxx Point to Multi-Point Network (P2MP):	C/ 01 SC 1.4 P16 L8 # 591 Dr. David V. James
1.4.xxx point to multi-point network (P2MP):	Comment Type TR Comment Status D
1.4.xxx Point-to-point emulation (P2PE): ==> 1.4.xxx point-to-point emulation (P2PE):	has excess capitalization, as can be seen by looking at Definitions are ****>>>>NOT<<<<**** capitalized just because they are defined. Even the most recent 802.3 "bible" has finally done this (mostly) right.
	Suggested Remedy
1.4.xxx Ranging:	I view the responses to submitted comments arrogant and ill informed. Your should rea
1.4.xxx ranging:	the IEEE Style manual, which is available on line. After that, establishing editorial guidelines (which a chief editor should do) or distributir
1.4.xxx Reflectance:	pointers to useful references would be useful, such as
==> 1.4.xxx reflectance:	http://dvjames.com/templates/StdBook.pdf. A response of 802.3 precedence is irrelevent: your job is to write based on IEEE style
	guidelines. Besides, the precedence (most recent 802.3) also shows definitions not capitalized unless proper nouns.
1.4.xxx Upstream: ==>	Proposed Response Response Status W
1.4.xxx upstream:	PROPOSED REJECT.
oposed Response Response Status U	The commenter is encouraged to provide specific comments and suggested remedies
ACCEPT IN PRINCIPLE.	The commence is encouraged to provide specific comments and suggested remedies
Will capitalize abbreviations in a definition to be consistant with 802.3ae (part of t document), Otherwise they will not be.	Dase
For definitons they will not be capitalized	
O1 SC 1.4 P 16 L 2 # 40 row, Robert Intel	8
omment Type E Comment Status D Grammar problem.	
uggestedRemedy Change "an subscriber" to "a subscriber".	
roposed Response Response Status W	

PROPOSED ACCEPT.

CL 04	80.4.4	047	/ F	# 00045		==>
C/ 01 James, D	SC 1.4 David	P 17 JGG	L 5	# 99345)	LLID logical link identifier
Commen		Comment Status A		D	3.0 #733	MPCP Multi-Point Control Protocol
Exce	essive capitalization	n. There is no point in capital n). This confuses the parsing				==> MPCP multi-point control protoco
regis	ters, fields, etc. are					OAM Operations, Administration, and Maintenance
Duo	to the large number	er of these, and failures in the	pact when atte	motion to receive	those	OAM operations, administration, and maintenance
	er, they have been		past when all		liese	OAMPDU Operations, Administration, and Maintenance Protocol Data Unit
		ssary capitalization, provide a earch, then for me and/or oth			itors.	==> OAMPDU operations, administration, and maintenance protocol data unit
Suggeste	edRemedy					ODN Optical Distribution Network
	Central Office					==> ODN optical distribution network
==> CO c	central office					OH Overhead
	Customer Premise	es Equipment				==> OH overhead
==> CPE	customer premise	s equipment				OLT Optical Line Terminal
CPR ==>	Coupled Power R	atio				==> OLT optical line terminal
	coupled power rat	io				ONU Optical Network Unit
DMT ==>	Discrete Multi-Tor	ne				==> ONU optical network unit
	discrete multi-tone	e				ORLT Optical return loss tolerance
DA D ==>	Destination Address	S				==> ORLT optical return loss tolerance
	lestination address					P2P Point to Point
	Ethernet in the Fir	st Mile				==> P2P point to point
==> EFM	Ethernet in the first	st mile				P2PE Point to Point Emulation
EFM ==>	Cu Ethernet in the	e First Mile				==> P2PE point to point emulation
	Cu Ethernet in the	e first mile				P2MP Point to Multi-Point
FEC ==>	Forward Error Cor	rection				==> P2MP point to multi-point
	forward error corre	ection				PAF PMI Aggregation Function
FSW ==>	Frame Synchroniz	zation Word				==> PAF PMI aggregation function
FSW	frame synchroniza Logical Link identi					PAFH PMI Aggregation Function Header

unit loss tolerance loss tolerance Emulation emulation Point point n Function n function ion Function Header

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

Page 10 of 146 C/ 01 SC 1.4

==> PAFH PMI aggregation function header	C/ 01 SC 1.5 P 17 L 38 # 382 Beili, Edward Actelis Networks Actelis Networks Actelia Networks
PAM Pulse Amplitude Modulation ==> PAM pulse amplitude modulation	Comment Type E Comment Status D PAF is defined as PMI aggregation function while it is PME aggregation function
PMS-TC Physical Media Specific - Transmission Convergence ==> PMS-TC physical media specific - transmission convergence	SuggestedRemedy Replace PMI with PME in the description. Proposed Response Response Status O
PSD Power Spectral Density ==> PSD power spectral density	C/ 01 SC 1.5 P 17 L 39 # 383 Beili, Edward Actelis Networks
SA Source Address ==> SA source address	Comment Type E Comment Status D PAFH is defined as PMI aggregation function header while it should be PME aggregation function header.
SHDSL Single-pair High-speed Digital Subscriber Line ==> SHDSL single-pair high-speed digital subscriber line	Besides it is not used anywhere in the text . SuggestedRemedy
STU-O SHDSL Transceiver Unit - Central Office ==> STU-O SHDSL transceiver unit - central office	Remove PAFH from the list of abbreviations. <i>Proposed Response Response Status W</i> PROPOSED REJECT.
STU-R SHDSL Transceiver Unit - Remote ==> STU-R SHDSL transceiver unit - remote	C/ 01 SC 1.5 P 17 L 45 # 386 Beili, Edward Actelis Networks 45 46 386
TCM Trellis Coded Modulation	Comment Type E Comment Status D Typo: "sddress" instead of "address"
==> TCM Trellis coded modulation	SuggestedRemedy Correct the typo.
UPBO Upstream power back-off ==> UPBO upstream power back-off	Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response Response Status U ACCEPT IN PRINCIPLE.	

Will capitalize abbreviations in a definition to be consistant with 802.3ae (part of base document), Otherwise they will not be.

For definitons they will not be capitalized

C/ 01 SC 1.5 P 17 L 47 # 384 Beili, Edward Actelis Networks 4 </td <td>C/ 04A SC P L # 156 Braga, Aldobino UNH-IOL</td>	C/ 04A SC P L # 156 Braga, Aldobino UNH-IOL
Comment Type E Comment Status D STU-O is defined instead of STU-C.	Comment Type E Comment Status D Many of the cross-references don't work
SuggestedRemedy Replace STU-O and STU-R definitions with the following: STU - SHDSL Transceiver Unit	SuggestedRemedy Please fix the cross-references.
STU-C - STU at the Central Office end STU-R - STU at the Remote end	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Proposed Response Response Status W PROPOSED REJECT. C/ 01 SC 1.5 P17 L6 # 385	I think all of the internal references work but I'll check through them again. Many external references are to clauses that are not open as part of this project so I don't know how to fix those.
C/ 01 SC 1.5 P 17 L 6 # 385 Beili, Edward Actelis Networks 4 385	A complete list would be helpful.
Comment Type E Comment Status D Some abbreviations used in the text are not listed in Abbreviations section.	C/ 04A SC 4A.1.2 P 556 L 50 # 145 Braga, Aldobino UNH-IOL 145
SuggestedRemedy Add the following abbreviations to the list:	Comment Type E Comment Status D Figure 4A-1 is not the architectural model mentioned.
DSL - Digital Subscriber Line VDSL - Very high speed Digital Subscriber Line xDSL - Generic term covering the family of all DSL technologies, e.g. SHDSL, ADSL, VDSL	SuggestedRemedy Please add the Architectural model, label it Figure 4A-1, and increment all other Figure numbers and Figure reference.
LT - Line Termination NT - Network Termination TC - Transmission Convergence	Proposed Response Response Status W PROPOSED ACCEPT.
VTU - VDSL Transceiver Unit VTU-O - VTU at the Central Office end VTU-R - VTU at the Remote end	C/ 04A SC 4A.1.4 P 558 L 31 # 146 Braga, Aldobino UNH-IOL UNH-IOL Image: Compare the second
Proposed Response Response Status W PROPOSED REJECT.	Comment Type E Comment Status D The note in the figure is incomplete.
We have discussed this in the past.	SuggestedRemedy Note should read, "NOTE-a1, b2, etc., refer to functions listed in 4A.1.4."
	Proposed Response Response Status W PROPOSED ACCEPT.

C/ 04A	SC 4A.2.2	P 561	L 35	# 152
Braga, Ald	obino	UNH-IOL		

Comment Type E Comment Status D

The paragraph used to have the following statement:

"Within the Pascal descriptions provided in Clause 4, a "‡"in the left margin indicates a line that has been added to support management services. These lines are only required if Layer Management is being implemented. These changes do not affect any aspect of the MAC behavior as observed at the LLC-MAC and MAC-PLS interfaces of ISO/IEC 8802-3:1990."

As this has nothing to do specifically with half duplex operation I don't see why it was removed.

SuggestedRemedy

Please add the statement, and fix the Pascal code and flow charts such that the "‡" symbols are replaced wherever applicable.

Proposed Response Response Status W

PROPOSED REJECT.

This change was actually done on purpose to help clean up duplicated text or code that was sometimes exactly the same and other times defined differently.

Take, for example, the description of TransmitStatus or ReceiveStatus in 4.3.2 - there is a different list of status code types for each frame status field depending on whether Layer Management exists. Both of these exist in today's Clause 4 because of the requirement to maintain compatibility with MACs developed before Layer Management existed.

The management services were not removed. Instead they were made the only option since there is no requirement to maintain a description that doesn't support management services as was the case with Clause 4.

C/ 04A	SC 4A.2.3.1	P 562	L 41	# 147
Braga, Aldob	pino	UNH-IOL		

Comment Type **T** Comment Status **D** Missing cross-reference.

SuggestedRemedy

Please change "...CRC value is generated..." to "...CRC value as defined in 3.2.8 is generated..."

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

This problem comes from 802.3ae where the reference to 3.2.8 was deleted. This means that the current Clause 4 MAC, as approved by 802.3ae, has no reference to the CRC in 3.2.8!

This comment should be sent to maintenance against Clause 4 as well.

Replace "CRC value generated by the MAC sublayer" with "CRC value as defined in 3.2.8"

C/ 04A	SC 4A.2.3.2.1	P 562	L 54	# 153
Braga, Aldo	obino	UNH-IOL		

Comment Type **TR** Comment Status **D**

"Or-ing" the transmitting variable with carrierSense will make this MAC behave differently than a Clause 4 full duplex MAC.

A Clause 4 FD MAC and PHY combo is able to transmit while receiving because the MAC ignores the carrierSense signal. Using an Annex 4A FD MAC and the same PHY will provide different results; the MAC will not be able to transmit while currently receiving a frame.

SuggestedRemedy

Suggest adding a "carrierSenseMode bit". When the bit is set (true), then transmitting should be "or-ed" with carrierSense. When the bit is not set (false), then transmitting should be the only variable checked before sending the frame to the Physical Layer.

This would also affect these areas in the document:

Pg. 564, line 53: part in parenthesis is only true if carrierSenseMode bit set.

Pg. 564, line 54: don't monitor carrierSense if carrierSenseMode bit not set.

Pg. 568, line 32: add a transmit state variable called carrierSenseMode

Pg. 569, line 52: In Initialize procedure set carrierSenseMode

Pg. 569, line 53: carrierSense should only be checked if carrierSenseMode bit is set

Pg. 571, line 54: carrierSense should only be checked if carrierSenseMode bit is set

Pg. 572, line 03: carrierSense should only be checked if carrierSenseMode bit is set

Pg. 578, line 32: need to explain listening to carrierSense would be optional

* There should be a statement saying that carrierSenseMode is false when deferenceMode is false.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Detailed instructions:

At the end of the first paragraph in 4A.2.3.2.1, add the following sentence: "The variable carrierSense is ignored in process Deference when the variable carrierSenseMode is FALSE."

Add the new variable and description just below "deferenceMode" in the var list in 4A.2.7.2: "carrierSenseMode: Boolean; {Indicates the desired mode of operation, and enables using carrierSense to extend deference due to congestion in the PHY}"

Add an assignment to this new variable in procedure Initialize in 4A.2.7.5 after the assignment to the deferenceMode variable: "carrierSenseMode := . . .; {True for implementations that use carrierSense to indicate congestion in the PHY, false otherwise. carrierSenseMode is ignored when deferenceMode is FALSE}

This last sentence assumes comment #196 is rejected. If accepted, remove this last sentence.

Two places in process Deference (page 571, line 54 and page 572, line3), replace

"carrierSense" with "(carrierSenseMode and carrierSense)". Italicise the word "and".

In the carrierSense variable description in 4A.3.3 (page 578, line32), replace the first paragraph with the following: "When the value of variable carrierSenseMode is set to TRUE, ".

Insert the following paragraph after this one: "When the value of variable carrierSenseMode is set to FALSE, the carrierSense variable is ignored by the MAC."

Add a single asterisk after "carrierSense" twice in the Deference process control flow diagram in Figure 4A-3c then add a text note in the diagram: "* - carrierSense is ignored when carrierSenseMode is FALSE"

C/ 04A SC	4A.2.3.2.1	P 5	64	L11	#	
Braga, Aldobino		UNH-	IOL			
Comment Type	т	Comment Status	D			
Figure 4A-30 BitReceiver	C - Control FI process	ow				

The negative arc off of "receiveDataValid off or frameFinished on?" used to go before the "receive a bit" block. Now it goes below it. This means only one bit will be received.

SuggestedRemedy

Please place the arc before the "receive a bit" block.

Proposed Response Response Status W PROPOSED ACCEPT.

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

Page 14 of 146 C/ 04A SC 4A.2.3.2.1

C/ 04A SC 4A.2.5 P 566 L 43 # 154 Braga, Aldobino UNH-IOL	C/ 04A SC 4A.2.7.1 P 568 L 12 # 149 Braga, Aldobino UNH-IOL
Comment Type T Comment Status D "BitTransmitter shall first transmit the preamble, a bit sequence used for physical	Comment Type T Comment Status D Two occurrences of:
medium stabilization and synchronization, followed by the Start Frame Delimiter." But in the Pascal Code I don't see: "while currentTransmitBit? < = lastHeaderBit do begin TransmitBit(outgoingHeader [currentTransmitBit]);{transmit header one bit at a time} currentTransmitBit :=currentTransmitBit +1 end ;" SuggestedRemedy	"headerContents: array [1headerSize] of Bit)" SuggestedRemedy Remove first instance of "headerContents: array [1headerSize] of Bit)" Proposed Response Response Status W PROPOSED ACCEPT. This problem comes from 802.3ae where this same mistake was made.
Either put the snippet of code into BitTransmitter so that the header will be transmitted or	This comment should be sent to maintenance against Clause 4 as well.
put PhysicalSignalEncap back in with the exception of Jam enforcement. If you put PhysicalSignalEncap back into the document, you'll also have to make the following changes: Figure 4A-2, will need a PhysicalSignalEncap block Annex 4A2.5, replace BitTransmitter with PhysicalSignalEncap Annex 4A.2.8 (edit BitTransmitter process, add a description, and add PhysicalSignalEncap procedure) Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PhysicalSignalEncap seemed to be a useful place to transmit the preamble without reacting to collisions. I'd prefer not to reinstate this code. To remove the possibility of a race condition, in procedure StartTransmit (page 571, line	C/ 04A SC 4A.2.7.1 P 571 L 17 # 150 Braga, Aldobino UNH-IOL UNH-IOL Image: Comment Type T Comment Status D Two occurrences of: "begin ComputePad := {Append an array of size padSize of arbitrary bits to the MAC client dataField} end; {ComputePadParam}" SuggestedRemedy Remove the first instance of: "begin ComputePad := {Append an array of size padSize of arbitrary bits to the MAC client dataField}
 45) reverse the order of the assignments to "transmitting" and "lastHeaderBit". In process BitTransmitter, inside the "while transmitting do" loop (page 572, line 18), add the following code after the "begin": "while currentTransmitBit = lastHeaderBit do begin TransmitBit(outgoingHeader [currentTransmitBit]); currentTransmitBit :=currentTransmitBit +1 end;" 	end; {ComputePadParam}" Proposed Response Response Status W PROPOSED ACCEPT. This problem comes from 802.3ae where this same mistake was made. This comment should be sent to maintenance against Clause 4 as well.

C/ 04A SC 4A.2.7.2 Braga, Aldobino	<i>Р</i> 568 UNH-IOL	L 19	# 151	C/ 04A SC 4A.2.8 Kramer, Glen	Р 571 Teknovus	L 32	# 196
Comment Type E It is difficult to differenti	Comment Status D iate the prose from the code.			Comment Type T Thin MAC discussion	Comment Status D n at the January meeting had t	he following resol	ution:
SuggestedRemedy Please place a new line	e between the descriptive text	t and the beginn	ing of the Pascal code.		e 'deferenceMode' to enable/dis se' to allow PHY controlling the		ment in MAC
This also occurs on:		Ū		Yet, in the currend d carrierSense signals	raft if the defernceMode is fals swill be ignored.	e, both the IPG e	nforcement and
Pg. 569 line 43 Pg. 570 line 9				SuggestedRemedy			
Pg. 570 line 31 Pg. 571 line 29 Pg. 571 line 41					ation should keep line 32 in Tra Defer to physical layer contention		ement as it was before:
Pg. 571 line 51 Pg. 572 line 11					able should be used in process en Wait(interFrameSpacing); {		erframe gap}
Pg. 572 line 53 Pg. 573 line 52 Pg. 574 line 18				This way one may di maintain IPG.	isable IPG in MAC but still use	carrierSense to c	ontrol congestion or
Pg. 574 line 38 Pg. 575 line 28				Proposed Response	Response Status W		
Proposed Response	Response Status W			PROPOSED ACCER	PT IN PRINCIPLE.		
PROPOSED ACCEPT	,				ange, in conjunction with addir ely separate. Does it make sen gMode?		
				In addition to the sug	ggested remedy, make the follo	owing changes:	
				diagram in Figure 4A	sk after "wait interframe spacing A-3c then add a text note in the s ignored when deferenceMode	diagram: "** - de	
					n of the deferenceMode variab the desired mode or operation leference process}		

C/ 04A SC 4A.3.3 P 578 L 28 Braga, Aldobino UNH-IOL	# 155	<i>Cl</i> 22 James, David	SC 1.4	Р 21 JGG	<i>L</i> 1	# 99309
Comment Type T Comment Status D		Comment Ty	be TR	Comment Status R		D3.0 #734
I don't think the definition of carrierSense should be changed. On when it sees it. SuggestedRemedy Please define a bit indicating when carrierSense is being used (ca copy verbatim the text from Clause 4 with the following exceptions Replace "In half duplex mode," with "When carrierSenseMode and	arrierSenseMode) and s: is set to true,"	with no a registers, Also, IEE Due to th earlier, th	pparent pattern , fields, etc. are E Style manua e large numbe ney have been	n. There is no point in capit n). This confuses the parsi e all capitalized. al clearly shown acronyms er of these, and failures in t elevated to a TR.	ng of sentences, s not capitalized un he past when atte	since defined words, less proper nouns. Impting to resolve these
Replace "In full duplex mode," with "When carrierSenseMode is	s set to faise,"			ssary capitalization, provide earch, then for me and/or o		
Proposed Response Response Status W		SuggestedRe				
PROPOSED ACCEPT. I'm not sure I agree with this. The description for carrierSense is for PHY using the full-duplex MAC, carrierSense does not necessarily merely is an indication of contention. I'll wait for the		22. Reco ==>	nciliation Subla	ayer (RS) and Media Indep ayer (RS) and media indep <i>Response Status</i> U		, ,
When carrierSenseMode is set to TRUE, the MAC sublayer shall carrierSense to defer its own transmissions when the medium is b sets carrierSense to true immediately upon detection of activity or After the activity on the physical medium ceases, carrierSense is true/false transitions of carrierSense are not defined to be precise beginning and the end of the frame, but may precede the beginnin respectively. (See 4A.2 for details.) When carrierSenseMode is set is unde?ned.	busy.The Physical Layer n the physical medium. set to false. Note that the ely synchronized with the ng and lag the end,	Cl 22 Dawe, Piers Comment Typ	g the title of an SC 22.2.4.1.1 pe T	Agilent Comment Status D	L 10	# 267
Cl 04A SC 4A.3.3 P 578 L 32 Kramer, Glen Teknovus	# 197	doesn't se do this fe	eem any need ature, it would	epetitive? I know it's follow to say 'bit 0.5 should alwa be just as good, or better,	ys be written as zo for the STA not to	ero,'. If the PHY won't attempt to write to bit
Comment Type T Comment Status D		0.5 at all. a T.	I hope the eff	fect of this comment is mer	rely editorial, but ju	ust in case, I've made it
In full duplex mode of operation PHY does not encounter any con	itention (for the media).	SuggestedRe	medv			
But it may encounter congestion due to rate mismatch, etc.		Shorten t				
SuggestedRemedy	his paragraph)			1.7 that it lacks the ability t rface regardless of whethe		
Penlace the word 'contention' with 'congestion' (2 occurences in the	nis palaylaph)			ed, the PHY shall		
Replace the word 'contention' with 'congestion' (2 occurences in the Proposed Response Response Status W				bit 0.5, and any attempt to	o write a one to bit	t 0.5 shall be ignored.
			alue of zero ir		o write a one to bit	t 0.5 shall be ignored.

CI 22	SC 22.2.4.1.12	P 23	L 20	# 99310
Booth, Brad		Intel		
Comment Ty Subclau clause.		Comment Status contains data that i		D3.0 #747 or belongs in another
SuggestedR	emedy			
Move the	e last sentence of	f the last paragraph	to be the last sente	ence of the first paragraph.
	e second paragra ed MF38 & MF39		rst paragraph. Mov	ve MF42 & MF43 in PICS
respectiv		petition here just re		mation should be in those other standards
Proposed Re ACCEP	esponse T IN PRINCIPLE.	Response Status	U	
l agree v	with all the moves	s.		
		added to resolve a - thout consideration		t expressed concern about
CI 22	SC 22.2.4.1.12	P 23	L 27	# 268
Dawe, Piers		Agilent		
Comment Ty This doe after'		Comment Status neant: 'A managem		set bit 0.5 to a logic one
SuggestedR	emedy			
Change A manag		II set bit 0.5 to a log	ic one only after	
Proposed Re PROPO	esponse SED ACCEPT.	Response Status	W	
CI 22	SC 22.2.4.1.12	P 23	L 32	# 269
Dawe, Piers		Agilent		
Comment Ty Do we h	/pe T ave to spell this c	Comment Status out fully?	D	
	r extending 'The	default value of bit 0 5 is zero, except for		where it is one.
Proposed Re	esponse	Response Status	w	

CI 22	SC 22.2.4.2.8	Р	L	# 270
Dawe, Piers	6	Agilent		
Comment T This is a in 66.1		Comment Status D s bit, we can't say it 'sh		ng. Editorial: note PMA
SuggestedF	Remedy			
	shall return a valu	ue of zero in bit 1.7 if i .1 or a 1000BASE-X P		X PHY using the PMA specified in 66.2.
Proposed R PROPC	esponse SED ACCEPT.	Response Status V	I	
CI 22	SC 22.2.4.2.8	P 25	L 9	# 99311
Thompson,	Geoffrey	Nortel		
Comment T	ype TR	Comment Status A		D3.0 #79
appear	to allow "unidired	beyond the allowed so tional ability" on legac ability problems with co	y PHY types. This o	change could cause great
SuggestedF	Remedy			
unidirec types. Any WC	ctional ability. Rec	quire that the value of	bit 1.7 will be zero f egacy PHY types sl	nis clause that support for all other current PHY nould be done through
Proposed R	esponse T IN PRINCIPLE	Response Status U	I	
ACCEP			e followina: 100BAS	SE-X using the PCS
"Bit 1.7		for all PHYs except the 00BASE-X using the P		
"Bit 1.7 specifie	d in 66.1 and 100		PCS specified in 66.	

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

			P802.3ah	Draft 3.1 Comments			
7 22 SC 22.7.	3.4 P 27	L 22	# 409	C/ 30 SC 30	P 38	L1	# 639
Frow, Robert	Intel			Dawe, Piers	Agilent		
Comment Type E MF43 through MF4	Comment Status D 5 are inconsistent on style.			Comment Type E C Wrong dash type in table x	omment Status D y (or maybe two dashe	s used)	
SuggestedRemedy				SuggestedRemedy			
MF43: Feature = "	mment information to the value/c Enable Unidirectional mode", V/C	= "Enable only w		"This problem shows up in s tables, so it looks like a temp		cts references to	figures as well as
before disabling O	Disable Unidirectional mode", V/0 AM sublayer when not part" Jnidirectional Ability", V/C= "Bit 1			Proposed Response Re PROPOSED ACCEPT.	sponse Status W		
Similar modification	ns to MF 38 and MD39 are also a	dvised.		C/ 30 SC 30.1.2.1.1.3	P 71	L 19	# 481
Proposed Response	Response Status W			Schneiderheinze, Burkart	Infineon Tec	hnologies	
PROPOSED ACCI	EPT.			· · · · //· ·	omment Status D		Cu S
C/ 30 SC 30	P 29	L 5	# 637	loss of power also supported	by 2BASE-TL no reas	son for removing	SHDSL part
awe, Piers	Agilent			SuggestedRemedy	TO		
Comment Type E	Comment Status D			remove limitation to 10PASS	_		
10Gb/s				Proposed Response Re PROPOSED ACCEPT.	sponse Status W		
SuggestedRemedy				PROPOSED ACCEPT:			
10 Gb/s. Also ann	ex 30A			C/ 30 SC 30.11.1.1.11	P 59	L 23	# 24
Proposed Response	Response Status W			Law, David	3Com		
PROPOSED ACCI	EPT.			· · · · //·	omment Status D		
30 SC 30	P 30	<i>L</i> 1	# 397	The attribute aOAMRemotel based attribute.	FlagsField needs rules	for update added	as it is a reception
aw, David	3Com			SuggestedRemedy			
Comment Type E	Comment Status D			Suggest the following test be	added:		
Replace long dash	with short dash thought Clause	30.					
SuggestedRemedy See comment.				This value is updated on rec reserved multicast address f field value equal to the reser	or Slow_Protocols spe ved Type for Slow_Pro	cified in Table 43 tocols as specifie	B–1, (2) lengthOrType ed in Table 43B–2, (3)
Proposed Response	Response Status W			a Slow_Protocols subtype va Table 43B–3.;	alue equal to the subty	be reserved for O	AM as specified in
PROPOSED ACCI	EPT.			Proposed Response Re PROPOSED ACCEPT.	sponse Status W		

C/ 30 SC 30.11.1.1.1 P59	L 31	# 244	C/ 30 SC 30.11.1.1.3		L 6	# 247
Martin, David Nortel Net	works		Martin, David	Nortel Netv	vorks	
Comment Type T Comment Status D			Comment Type E	Comment Status D		
The Flags field is present in every OAMPDU. Thi the last received OAMPDU of any code value.	is attribute should b	e updated according to	Туро.			
,			SuggestedRemedy			
SuggestedRemedy Change "received Local Information TLV" to "rec			Change "Errored Symbo	I field" to "Errored Symbo	ols field"	
	eived OAIvii DO		Proposed Response	Response Status W		
Also need to add the associated 'when updated e	etc' text. Add		PROPOSED ACCEPT.			
"This value is updated on reception of a valid fra	me, with (1) destina	tionField equal to the	C/ 30 SC 30.11.1.1.3	8 P67	L 6	# 599
reserved multicast address for Slow_Protocols s field value equal to the reserved Type for Slow_F			Squire, Matt	Hatteras N	etworks	
Slow_Protocols subtype value equal to the subty			Comment Type TR	Comment Status D		
43B-3, (4) the OAM code equals one of the code	es as specified in Ta	ble 57-4."	The configuration descrip		vent. It should say	y that it is measured
Proposed Response Response Status W			over a given number of f	rames as in 57.5.3.3.		
PROPOSED ACCEPT.			SuggestedRemedy			
C/ 30 SC 30.11.1.1.12 P59	L 47	# 245	Change first paragraph in	n BEHAVIOR to:		
Martin, David Nortel Net	works		The first integer is a four-			
					har of framoa in th	
Comment Type T Comment Status D			· · · · · · · · · · · · · · · · · · ·	dow, in terms of the num	ber of frames in th	e window.
Comment Type T Comment Status D Need to be a little more specific on where the Re	evision field is.		Proposed Response	dow, in terms of the num Response Status W	ber of marries in th	e window.
Need to be a little more specific on where the Re	evision field is.		· · · · · · · · · · · · · · · · · · ·	,	ber of frames in th	e window.
Need to be a little more specific on where the Re SuggestedRemedy Change "Figure 57-10) of the most recently trans	smitted" to "Figure 5	i7-10) in the Local	Proposed Response	Response Status W	L 11	# 25
Need to be a little more specific on where the Re SuggestedRemedy Change "Figure 57-10) of the most recently trans Information TLV of the most recently transmitted	smitted" to "Figure 5	57-10) in the Local	Proposed Response PROPOSED ACCEPT.	Response Status W		
Need to be a little more specific on where the Re SuggestedRemedy Change "Figure 57-10) of the most recently trans Information TLV of the most recently transmitted Proposed Response Response Status W	smitted" to "Figure 5	57-10) in the Local	Proposed Response PROPOSED ACCEPT. C/ 30 SC 30.11.1.1.3	Response Status W 9 P67		
Need to be a little more specific on where the Re SuggestedRemedy Change "Figure 57-10) of the most recently trans Information TLV of the most recently transmitted	smitted" to "Figure 5	7-10) in the Local	Proposed Response PROPOSED ACCEPT. C/ 30 SC 30.11.1.1.3 Law, David	Response Status W 9 P67 3Com Comment Status D	L 11	
Need to be a little more specific on where the Re SuggestedRemedy Change "Figure 57-10) of the most recently trans Information TLV of the most recently transmitted Proposed Response Response Status W PROPOSED ACCEPT.	smitted" to "Figure 5	57-10) in the Local # 246	Proposed Response PROPOSED ACCEPT. Cl 30 SC 30.11.1.1.3 Law, David Comment Type T	Response Status W 9 P67 3Com Comment Status D	L 11	
Need to be a little more specific on where the Re SuggestedRemedy Change "Figure 57-10) of the most recently trans Information TLV of the most recently transmitted Proposed Response Response Status PROPOSED ACCEPT. Cl 30 SC 30.11.1.1.13	smitted" to "Figure 5 " <i>L</i> 4	·	Proposed Response PROPOSED ACCEPT. Cl 30 SC 30.11.1.1.3 Law, David Comment Type T The third and fourth integ	Response Status W 9 P67 3Com Comment Status D gers are in the wrong ord	L 11	
Need to be a little more specific on where the Re SuggestedRemedy Change "Figure 57-10) of the most recently transmitted" Information TLV of the most recently transmitted" Proposed Response Response Status PROPOSED ACCEPT. C/ 30 SC 30.11.1.1.13 P60 Martin, David Nortel Net	smitted" to "Figure 5 " <i>L</i> 4	·	Proposed Response PROPOSED ACCEPT. Cl 30 SC 30.11.1.1.3 Law, David Comment Type T The third and fourth integ SuggestedRemedy	Response Status W 9 P 67 3Com 3Com Comment Status D gers are in the wrong ord ord gers should read: D	L 11 er.	
Need to be a little more specific on where the Re SuggestedRemedy Change "Figure 57-10) of the most recently transmitted" Information TLV of the most recently transmitted" Proposed Response Response Status PROPOSED ACCEPT. Cl 30 SC 30.11.1.1.13 P60 Martin, David Nortel Net	smitted" to "Figure 5 " <i>L</i> 4 works	·	Proposed Response PROPOSED ACCEPT. Cl 30 SC 30.11.1.1.3 Law, David Comment Type T The third and fourth integ SuggestedRemedy The third and fourth integ	Response Status W 9 P 67 3Com 3Com Comment Status D gers are in the wrong ord ord gers should read: esents the Errored Frame	L 11 er. e Threshold field	
Need to be a little more specific on where the Re SuggestedRemedy Change "Figure 57-10) of the most recently transmitted Proposed Response Response Status PROPOSED ACCEPT. C/ 30 SC 30.11.1.1.13 Partin, David Nortel Nett Comment Type T Comment Status D Need to be a little more specific on where the Re	smitted" to "Figure 5 " <i>L</i> 4 works	·	Proposed Response PROPOSED ACCEPT. Cl 30 SC 30.11.1.1.3 Law, David Comment Type T The third and fourth integ SuggestedRemedy The third and fourth integ The third INTEGER repro	Response Status W 9 P 67 3Com 3Com Comment Status D gers are in the wrong ord ord gers should read: esents the Errored Frame	L 11 er. e Threshold field	
Need to be a little more specific on where the Re SuggestedRemedy Change "Figure 57-10) of the most recently transmitted Proposed Response Response Status PROPOSED ACCEPT. Cl 30 SC 30.11.1.1.13 P60 Martin, David Nortel Nett Comment Type T Comment Status D Need to be a little more specific on where the Re	<i>L</i> 4 <i>L</i> 4 works evision field is.	# 246	Proposed Response PROPOSED ACCEPT. Cl 30 SC 30.11.1.1.3 Law, David Comment Type T The third and fourth integ SuggestedRemedy The third and fourth integ The third INTEGER repr The fourth INTEGER repr	Response Status W 9 P 67 3Com 3Com comment Status D gers are in the wrong ord gers should read: gers should read: esents the Errored Frame resents the Errored Frame frame	L 11 er. e Threshold field	
Need to be a little more specific on where the Re SuggestedRemedy Change "Figure 57-10) of the most recently transmitted Proposed Response Response Status PROPOSED ACCEPT. Cl 30 SC 30.11.1.1.13 P60 Martin, David Nortel Nett Comment Type T Comment Status D Need to be a little more specific on where the Re SuggestedRemedy Change "Figure 57-10) of the most recently transmitted	<i>L</i> 4 <i>L</i> 4 works evision field is.	# 246	Proposed Response PROPOSED ACCEPT. Cl 30 SC 30.11.1.1.3 Law, David Comment Type T The third and fourth integ SuggestedRemedy The third and fourth integ The third INTEGER repro The fourth INTEGER repro The fourth INTEGER repro	Response Status W 9 P 67 3Com 3Com comment Status D gers are in the wrong ord gers should read: gers should read: esents the Errored Frame resents the Errored Frame frame	L 11 er. e Threshold field	

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C/ 30 SC 30.11.1.1.39 P67 L19 # 248	C/ 30 SC 30.11.1.1.42 P68 L11 # 26
Martin, David Nortel Networks	Law, David 3Com
Comment Type E Comment Status D Relocate third integer below the fourth to preserve same sequence as in c57.	Comment Type T Comment Status D The third and fourth integers are in the wrong order.
SuggestedRemedy Move line 19 for Errored Frames to below line 20 for Errored Frame Threshold and re- number.	SuggestedRemedy The third INTEGER represents the Errored Symbol Threshold field The fourth INTEGER represents the Errored Symbols field
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.
C/ 30 SC 30.11.1.1.4 P 57 L 26 # 598 Squire, Matt Hatteras Networks 598	C/ 30 SC 30.11.1.1.42 P 68 L 19 # 250 Martin, David Nortel Networks Nortel Networks P 68 P
Comment Type T Comment Status D C30 combines send_local_remote_1 and send_local_remote_2 from the discovery state machine into one state. These states have distinct meanings in the state diagram which should be exposed.	Comment Type E Comment Status D Move Errored Symbols line below the Errored Symbol Threshold line to preserve alignment with c57. SuggestedRemedy
SuggestedRemedy Break send_local_remote into 2 states in C30 (30.11.1.1.4)	Move line 19 for Errored Symbols below line 20 for the Errored Symbol Threshold and re- number.
Rename the states in the discovery state machine to provide more meaningful monikers. Suggestion: send_local_remote and send_local_remote_approved(?)	Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response Response Status W PROPOSED ACCEPT.	C/ 30 SC 30.11.1.1.6 P 57 L 54 # 641 Dawe, Piers Agilent
Proposed Response Response Status W PROPOSED ACCEPT. Clause 30 will be changed if the change to Clause 57 is accepted.	
Proposed Response Response Status W PROPOSED ACCEPT. Clause 30 will be changed if the change to Clause 57 is accepted. C/ 30 SC 30.11.1.1.41 P 67 L 5153 # 249 Martin, David Nortel Networks	Dawe, Piers Agilent Comment Type E Comment Status
Proposed Response Response Status W PROPOSED ACCEPT. Clause 30 will be changed if the change to Clause 57 is accepted. C/ 30 SC 30.11.1.1.41 P 67 L 5153 # 249 Martin, David Nortel Networks Comment Type E Comment Status D Typo. Typo.	Dawe, Piers Agilent Comment Type E Comment Status Rogue Capitals D SuggestedRemedy
Proposed Response Response Status W PROPOSED ACCEPT. Clause 30 will be changed if the change to Clause 57 is accepted. Cl 30 SC 30.11.1.1.41 P 67 L 5153 # 249 Martin, David Nortel Networks Comment Type E Comment Status D	Dawe, Piers Agilent Comment Type E Comment Status Rogue Capitals D SuggestedRemedy Lots of them. Proposed Response Response Status

C/ 30 SC 30.12.1.1.10 P73 L 32 # 642 C/ 30 SC 30.12.1.1.3 P71 L10 # 387 Dawe. Piers Aailent Beili. Edward Actelis Networks Comment Type E Comment Status D Comment Type т Comment Status D Cu STF Values of noPMEAssigned and noPeerPMEPresent are not defined clearly. aReomotePAFCapacity.; SugaestedRemedv SuggestedRemedv aRemotePAFCapacity.; Run the spell checker. Add some explanatory text (also make sure that clause 45 has matching definitions) e.g. noPMEAssigned means that PAF is enabled but Aggregation register is all zeros (no Proposed Response Response Status W modems assigned). PROPOSED ACCEPT. Currently there's no limitation in the text that you have to have at least 1 bit set in the Aggregation. C/ 30 SC 30.12.1.1.11 P73 # 482 L48 May be we should add that in. noPeerPMEPresent means that there was no answer during handshake initialization. It Schneiderheinze, Burkart Infineon Technologies could also mean that the modem on the other end physically exists but was excluded from Comment Type **T** Comment Status D Cu STF the aggregation as a result of Discovery (i.e. belongs to a different CPE already taken by another CO). cross reff points to local PME available register, there is no clause 45 register which reflects the Far End capabilities Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. remove cross ref, add a note that this information can be provided by 'analyzing' the Clause 45 will need to be updated to reflect this. discovery process Proposed Response Response Status W C/ 30 P74 SC 30.12.2.1.2 L 40 # 484 PROPOSED ACCEPT IN PRINCIPLE. Schneiderheinze, Burkart Infineon Technologies Comment Type E Comment Status D Cu STF Either a Clause 45 regsiter will need to be provided or this attribute will have to be removed. Cross ref points to remote PMESNRMgn C/ 30 SC 30.12.1.1.12 P74 L 8 # 483 SuggestedRemedy Schneiderheinze. Burkart Infineon Technologies update cross ref to 45.2.1.17 and add a respective object for remote SNR value Comment Type **T** Comment Status D Cu STF Response Status W Proposed Response cross ref points to local PME aggregate regsiter PROPOSED ACCEPT IN PRINCIPLE. SuggestedRemedy The cross-ref will be updated but the new attribute will not be added. update cross ref to 45.2.6.7, add a note that this information is valid when programming of PME aggregation on all link is finished Р # 38 C/ 30 SC 30.12.2.1.3 1 Response Status W Proposed Response Law. David 3Com PROPOSED ACCEPT. Comment Type **T** Comment Status D Cu STF Text is currently incomplete - reads '(see XREF).;'. SuggestedRemedy Once TC coding violations register is added, complete this cross-reference. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See comment #198.

C/ 30 SC 30.12.2.1.3 Schneiderheinze, Burkart	3 P 74 Infineon Tech	L 47 nologies	# 485	<i>CI</i> 30 Beili, Edward	SC 30.12.2.1.		P 75 Actelis Netwo	L 1 orks	# 388
Comment Type T max count is 19530 per SuggestedRemedy update value			Cu STF	be 6 (for Also poir and 63A	elect for 2Base each region), s iters to 62A.3 a 4 respectively.	see 63A.4. and 63A.3 are g	to support a r given (with a		Cu STF simultaneously. Should) instead of 62A.3.7 do't we agree in
Proposed Response PROPOSED ACCEPT.	Response Status W			Vancouv Finally n	er to have then ote that writing	n defined? a list of profile:	s for 2BaseTl	_ would result (af	ter a few minutes) in
C/ 30 SC 30.12.2.1.3 Dawe, Piers	Agilent	L 48	# 643	selection of a single profile or even none at all (on extremely long lines for exampl reading operation would probably return a list of integers in the beginning (or N/A? then a single value (current operating profile) with no possibility to retrieve original this what we want? Also value for failure is not specified.					nning (or N/A?) and
Comment Type E 10Mb/s SuggestedRemedy	Comment Status D				-			pport a max of 6	values simultaneously.
10 Mb/s Proposed Response	Response Status W			- Define - Define	a list of Comple a value for Prof	ete Profiles for fileSelect failur	10PassTS (e e		erably] or in Clause 30) /: aOperatingProfile
PROPOSED ACCEPT. 	3 P 74 Agilent	L 54	# 281		SED ACCEPT I	-			
Comment Type E see XREF	Comment Status D		Cu STF	Define that aProfileSelect support a max of 6 values. References to 62A and 63A will be fixed. A value for ProfileSelect failure will be defined. A new attribute aOperatingProfile will be added.					
SuggestedRemedy see where?				The com	plete list of Pro	files for 10Pas	sTS will have	e to be provided i	
Proposed Response PROPOSED ACCEPT.	Response Status W			Cl 30 Schneiderhei	SC 30.12.2.1. nze, Burkart		P 75 Infineon Tecl	L 10 hnologies	# 487
See comment #198.				Comment Ty 2BASE_	pe T TL PME does s	<i>Comment</i> S support all prof			Cu STF
C/ 30 SC 30.12.2.1.3 Schneiderheinze, Burkart	3 P74 Infineon Tech	L 54 nologies	# 486		te that 4 profile		en for g.994.1	I training sessior	is and the one with the
Comment Type T missing cross ref SuggestedRemedy point to 45.2.6.9	Comment Status D		Cu STF	Proposed Re	lata rate will be sponse SED ACCEPT.	e used Response S	tatus W		
Proposed Response PROPOSED ACCEPT.	Response Status W								

Cl 30SC 30.12.2.1.4P 75L 14Schneiderheinze, BurkartInfineon Technologies	# 488	C/ 30 SC 30.12.2. Law, David	1.4 P 75 3Com	L 9	# 398
Comment Type E Comment Status D after startup only 1 profile is used	Cu STF	Comment Type E '10PASE-TS PME' shi	Comment Status D buld read '10PASS-TS PME'.		
uggestedRemedy change profile number to profile number		SuggestedRemedy See comment.			
roposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.		Proposed Response PROPOSED ACCEPT	Response Status W		
See comment #388. A new attribute aOperatingProfile will be added that re current operating profile.	ports the	C/ 30 SC 30.13 Law, David	Р 75 3Com	L 24	# 22
30 SC 30.12.2.1.4 P75 L18 hneiderheinze, Burkart Infineon Technologies omment Type E Comment Status D cross refs to tables just point to the 2BASE part	# 489 Cu STF	Management, as PHY SuggestedRemedy	Comment Status D managed object class to be 3 device managed object class	s already is.	
uggestedRemedy add cross refs to table for 10Pass if there are similar registers roposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.			3. Renumber subclause 30.1 ent subclauses as required. <i>Response Status</i> W	3.1 to be subcla	use 30.3.3 and
See comment #388. The complete list of Profiles for 10PassTS will have to 62A.	be provided in	C/ 30 SC 30.13.1. Dawe, Piers	1.5 P76 Agilent	L 30	# 644
	# 392	Comment Type E a OLT	Comment Status D		
<i>mment Type</i> T <i>Comment Status</i> D The number of profiles was augmented from 4 to 6 for 2Base-TL	Cu STF	SuggestedRemedy an OLT			
uggestedRemedy Change line 9 to : A 2BAse-TL supports a maximum of 6 values.		Proposed Response PROPOSED ACCEPT	Response Status W		
oposed Response Response Status W		C/ 30 SC 30.13.1. Dawe, Piers	1.6 P76 Agilent	L 42	# 645
PROPOSED ACCEPT.					
PROPOSED ACCEPT.		Comment Type E Unwanted trailing)	Comment Status D		
PROPOSED ACCEPT.		71			

Comments

C/ 30 S Grow, Robert	SC 30.2.2.1	P 32 Intel	<i>L</i> 1	# 99314	C/ 30 Law, Da
Comment Type oMACCon 802.3ah.		<i>comment Status</i> A is not completly remov	ed from 802.3-20	<i>D3.0 #537</i> 002 by the changes of	Comme The
SuggestedRer Remove re 30A.4.1 pc Proposed Res	eference in IEEE If page 1063, prin	Std 802.3 Table 30-1c (ted page 486) require esponse Status U			[1] [2] <i>Sugges</i> [1] oP\$
On further IEEE Std 8 name oMA the pause	examination it ap 302.3-2002 is in ta ACControlFunction attributes, it will b	pears that the only mer able 30-1c (page 834) a nEntity is not very descr e far easier to preserve t impact the GDMO MIE	nd subclause 30 iptive of the attril this object name	.3.4. While the object outes that it contains,	[2] Propose PR
Based on [1] Back o oPAUSEE	ut the changes th	at deleted oMACContro	IFunctionEntity a	nd added	C/ 30 Beili, Ec Comme oTC
oMACCon [3] Change managed to read 'Th	trolFunctionEntity the text 'This su object class attrib	nally defines the behavi	d 'oMACControlF s the behaviours .4 'PAUSE entity	FunctionEntity (30.3.4)	tha the Sugges Rep "oP for Rep Rep
					PR Cl 30 Dawe, F Comme No Sugges Rei Propose

CI 30	SC 30.2.2.1	P 32	L 30	#	402
Law, David		3Com			

nent Type TR Comment Status D

ne inclusion of the entire 30.2.2.1 text at draft D3.1 has introduced a couple of errors:

The managed object 'oPSEGroup' is missing.

The managed object 'oMidSpanGroup' seems to have been added.

estedRemedy

Add the object 'oPSEGroup':

PSEGroup

ne PSE Group managed object class is a view of a collection of PSEs.

Delete the object 'oMidSpanGroup'.

sed Response Response Status W ROPOSED ACCEPT.

CI 30	SC 30.2.2.1	P33	L 39	# 377
Beili, Edward		Actelis Networks		
Comment Typ	e TR	Comment Status D		Cu STF

IC is described as providing PME Aggregation Function (PAF), while 61.1.4.1.3 states at "The PAF is located in the PCS, between the MAC-PHY Rate Matching function and e TC sublayer."

estedRemedy

eplace oTC definition with the following: PAF - The oPAF managed object class provides the management controls necessary PME Aggregation Function sublayer to be managed." eplace "oTC" with "oPAF" in the definition of oPME (page 33, line 7). eplace "oTC" with "oPAF" in Figure 30-3 and in Table 30-5.

sed Response Response Status W

ROPOSED ACCEPT.

C/ 30	SC 30.2.5	P 37	L 46	# <u>277</u>
Dawe, Pie	ers	Agilent		
Comment No ne	<i>Type</i> E eed to cross out th	Comment Status D e reference.		
Suggeste Reins	dRemedy state '(30.3.4)'.			
•	Response POSED ACCEPT.	Response Status W		

P802.3ah Draft 3.1	Comments
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C/ 30	SC 30.2.5	P 38	L15	# 278	C/ 30
Dawe, Pie	ers	Agilent			Law, Dav
Comment	туре т	Comment Status D		Cu STF	Comment
		ggregation Capability package		ndatory, as it is new,	Inclue
		relevant to just a few port typ	es.		Suggeste
00	dRemedy itional?				Add t
Proposed	Response	Response Status W			aTxG
		y has one capability, PME Ag	areastion hence	when PMF	aTxR
		nent that one capability has to			aTxR aTxR
	atory.	ione and one capability has to			aTxR
					aRxG
See a	also comment #37	78.			aRxR
01.00	00.00.05	D.40		"	aRxR
CI 30	SC 30.2.5	P 40	L 44	# 378	aRxR
Beili, Edw	ard	Actelis Netwo	orks		aRxR
Comment	Type TR	Comment Status D		Cu STF	Proposed
		ability is set as Mandatory. of PME Aggregation Capability v			PRO
a par	t of 10P/2B capab	pility.			C/ 30
Suggeste	dRemedy				Law, Dav
Add 1	0P/2B Package (Conditional).			Commen
Make	aPhyEnd, aPhyC	CurrentStatus, aPAFSupporte part of the 10P/2B Package		Supported and all	The a
		ation Capability (Mandatory)"			Suggeste
(Optio	onal)". Put the res	t of the oPAF attributes there	e (see my previou	s comment on oTC) .	Add t
Proposed	Response	Response Status W			
PRO	POSED ACCEPT				aMPO
					ATTR APPF
		Package to Table 30-5, this		ttributes aPMEID,	INTE
aPME	SNRMgn, aTCC	odingViolations and aProfileS	Select.		BEH
					The v

C/ 30 Law, David	SC 30.3.5.1	P 44 3Com	L 14	# 28
Comment	Туре Т	Comment Status D P in all MPCP related attribute	es.	
Suggested		er the initial 'a' to the following		
aTxRe aRxGa aRxRe aRxRe	egister egRequest eport ate egAck egister egRequest			
	•	Response Status W		
Proposed	•	Response Status W		
Proposed	Response POSED ACCEPT. SC 30.3.5.1	Response Status W P 44 3Com	L 14	# 27
Proposed PROP Cl 30 Law, David Comment	Response POSED ACCEPT. SC 30.3.5.1	P 44 3Com Comment Status D	L 14	# 27
Proposed PROP Cl 30 Law, David Comment The at Suggested	Response POSED ACCEPT. SC 30.3.5.1 d Type T ttribute aMPCPID iRemedy	P 44 3Com Comment Status D	L 14	# <mark>27</mark>

SC 30.3.5.1

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 30 S	SC 30.3.5.1.13	P 47	L 42	# 31	C/ 30 SC 30
Law, David	00.0.0.1.10	3Com	L 72	<i>"</i> 51	Dawe, Piers
Comment Type	e T	Comment Status D			Comment Type E
Missing co	ondition for incr	ementing this counter.			"Empty line, font
SuggestedRen	nedy				SuggestedRemedy
		estinationField equal to renumber the existing			
		-	conditions as require	u.	Proposed Response
Proposed Res	DONSE ED ACCEPT.	Response Status W			PROPOSED AC
					Can't find the err
	SC 30.3.5.1.14		L3	# 32	In subslauge 20
Law, David		3Com			In subclause 30. MPCP frames tra
Comment Type Missing co		<i>Comment Status</i> D ementing this counter.			REGISTER_AC
SuggestedRen		0			In subclause 30.
00		estinationField equal to	the reserved multic	ast address for MAC	MPCP frames tra REGISTER MPC
		renumber the existing			
Proposed Res	ponse	Response Status W			In subclause 30.
PROPOSE	, ED ACCEPT.	,			MPCP frames tra REGISTER_RE
C/ 30 S	SC 30 3 5 1 15	P48	/ 19	# 33	_
	SC 30.3.5.1.15	P 48 3Com	L 19	# 33	In subclause 30. MPCP frames tra
Law, David		3Com	L 19	# 33	In subclause 30. MPCP frames tra
Law, David Comment Type	e T	3Com Comment Status D	L 19	# <u>33</u>	In subclause 30. MPCP frames tra REPORT MPCP
Law, David Comment Type Missing co	e T andition for incr	3Com	L 19	# 33	In subclause 30. MPCP frames tra
Law, David Comment Type Missing co SuggestedRen	e T ondition for incr <i>medy</i>	3Com Comment Status D ementing this counter.			In subclause 30. MPCP frames tra REPORT MPCP In subclause 30. MPCP frames re
Law, David Comment Type Missing co SuggestedRen Add the co	e T pridition for incr <i>nedy</i> pridition '(1) a d	3Com Comment Status D ementing this counter. estinationField equal to	the reserved multica	ast address for MAC	In subclause 30. MPCP frames tra REPORT MPCP In subclause 30. MPCP frames re MPCP frames re
Law, David Comment Type Missing co SuggestedRen Add the co Control sp	e T ondition for incr <i>nedy</i> ondition '(1) a d ecified in 31A',	3Com Comment Status D ementing this counter. estinationField equal to renumber the existing	the reserved multica	ast address for MAC	In subclause 30. MPCP frames tra REPORT MPCP In subclause 30. MPCP frames re
Law, David Comment Type Missing co SuggestedRen Add the co Control sp Proposed Res	e T ondition for incr <i>nedy</i> ondition '(1) a d ecified in 31A', <i>ponse</i>	3Com Comment Status D ementing this counter. estinationField equal to	the reserved multica	ast address for MAC	In subclause 30. MPCP frames tra REPORT MPCP In subclause 30. MPCP frames re MPCP frames re In subclause 30.
Law, David Comment Type Missing co SuggestedRen Add the co Control sp Proposed Res	e T ondition for incr <i>nedy</i> ondition '(1) a d ecified in 31A',	3Com Comment Status D ementing this counter. estinationField equal to renumber the existing	the reserved multica	ast address for MAC	In subclause 30. MPCP frames tra REPORT MPCP In subclause 30. MPCP frames re MPCP frames re In subclause 30. MPCP frames re
Law, David Comment Type Missing co SuggestedRen Add the co Control sp Proposed Res PROPOSE	e T ondition for incr <i>nedy</i> ondition '(1) a d ecified in 31A', <i>ponse</i>	3Com Comment Status D ementing this counter. estinationField equal to renumber the existing	the reserved multica	ast address for MAC	In subclause 30. MPCP frames tra REPORT MPCP In subclause 30. MPCP frames re MPCP frames re In subclause 30. MPCP frames re REGISTER_ACI In subclause 30. MPCP frames re
Law, David Comment Type Missing co SuggestedRen Add the co Control sp Proposed Res PROPOSE	e T ondition for incr <i>medy</i> ondition '(1) a d recified in 31A', <i>ponse</i> ED ACCEPT.	3Com Comment Status D ementing this counter. estinationField equal to renumber the existing Response Status W	the reserved multica conditions as require	ast address for MAC	In subclause 30. MPCP frames tra REPORT MPCP In subclause 30. MPCP frames re MPCP frames re In subclause 30. MPCP frames re REGISTER_ACI In subclause 30. MPCP frames re
Law, David Comment Type Missing co SuggestedRen Add the co Control sp Proposed Res PROPOSE CI 30	e T ondition for incr <i>medy</i> ondition '(1) a d ecified in 31A', <i>ponse</i> ED ACCEPT. SC 30.3.5.1.16	3Com Comment Status D ementing this counter. estinationField equal to renumber the existing Response Status W P48	the reserved multica conditions as require	ast address for MAC	In subclause 30. MPCP frames tra REPORT MPCP In subclause 30. MPCP frames re MPCP frames re REGISTER_ACH In subclause 30. MPCP frames re REGISTER_ACH
Law, David Comment Type Missing co SuggestedRem Add the co Control sp Proposed Res PROPOSE Cl 30 S Law, David Comment Type	e T ondition for incr <i>medy</i> ondition '(1) a d ecified in 31A', <i>ponse</i> ED ACCEPT. SC 30.3.5.1.16 e T	3Com Comment Status D ementing this counter. estinationField equal to renumber the existing Response Status W P48 3Com	the reserved multica conditions as require	ast address for MAC	In subclause 30. MPCP frames tra REPORT MPCP In subclause 30. MPCP frames re MPCP frames re In subclause 30. MPCP frames re REGISTER_ACI In subclause 30.

Control specified in 31A', renumber the existing conditions as required.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 30	SC 30.3.5.1.17	P 48	L 43	# 63
Dawe, Pie	ers	Agilent		_

ment Type E Comment Status D Empty line, font of lines 45-47."

osed Response Response Status W ROPOSED ACCEPT IN PRINCIPLE.

Can't find the error but when checking for it found the follow errors:

subclause 30.3.5.1.9 'aTxRegAck' the text 'A count of the number of times a GATE IPCP frames transmission occurs.' should read 'A count of the number of times a REGISTER_ACK frames transmission occurs.'

subclause 30.3.5.1.10 'aTxRegister' the text 'A count of the number of times a GATE IPCP frames transmission occurs.' should read 'A count of the number of times a REGISTER MPCP frames transmission occurs.

subclause 30.3.5.1.11 'aTxRegRequest' the text 'A count of the number of times a GATE IPCP frames transmission occurs.' should read 'A count of the number of times a REGISTER REQ MPCP frames transmission occurs.

subclause 30.3.5.1.12 'aTxReport' the text 'A count of the number of times a GATE IPCP frames transmission occurs.' should read 'A count of the number of times a REPORT MPCP frames transmission occurs.'

subclause 30.3.5.1.13 'aRxGate' the text 'A count of the number of times a REPORT IPCP frames reception occurs.' should read 'A count of the number of times a GATE IPCP frames reception occurs.'

subclause 30.3.5.1.14 'aRxRegAck' the text 'A count of the number of times a REPORT IPCP frames reception occurs.' should read 'A count of the number of times a REGISTER_ACK MPCP frames reception occurs.'

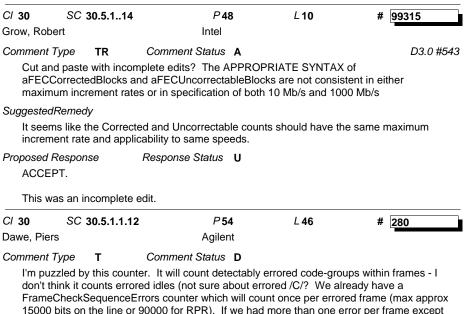
subclause 30.3.5.1.15 'aRxRegister' the text 'A count of the number of times a REPORT IPCP frames reception occurs.' should read 'A count of the number of times a REGISTER IPCP frames reception occurs.'

subclause 30.3.5.1.16 'aRxRegRequest' the text 'A count of the number of times a REPORT MPCP frames reception occurs.' should read 'A count of the number of times a REGISTER_REQ MPCP frames reception occurs.

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

Page 27 of 146 C/ 30 SC 30.3.5.1.17

			P802.3ah	Draft 3.1 Con	nments			
<i>Cl</i> 30 <i>SC</i> 30.3.5.1 . Law, David	17 P 48 3Com	L 51	# 35	C/ 30 Law, David	SC 30.3.5.1.6	6 P 45 3Com	L 47	# 396
0	Comment Status D ncrementing this counter.					Comment Status D 1 600 000 counts per sec ated at line rate.	ond correct. Can th	PONs nese MAC Control
	a destinationField equal to the A', renumber the existing con			Suggested Check	,	aximum rate is and update	e as required.	
Proposed Response PROPOSED ACCEPT	Response Status W			Also cl	heck rate for the	attributes:		
SuggestedRemedy Change the text 'This	3Com <i>Comment Status</i> D ding to match similar attribute counter is incremented when one when a MA_CONTROL.r <i>Response Status</i> W	a MA_CONTROI	# 29	aMPC aTxGa aTxRe aTxRe aTxRe aTxRe aRxGa aRxRe aRxRe aRxRe aRxRe aRxRe	gAck gister gRequest port ate gAck gister gRequest sport	sReceived Response Status W		
				Suggested Chang valid fr	<i>Type</i> E st changed word <i>IRemedy</i> je the text 'This c	3Com Comment Status D ling to match similar attribu- counter is incremented whe	en a ReceiveFrame	
				Proposed PROP	Response OSED ACCEPT.	Response Status W		



very occasionally, the error rate (after any FEC) would be approx 10^-5 or worse - we don't need to know how much worse.

Also this counter will miss many 4B/5B errors, as the 4B/5B code doesn't have very good error detection. It will miss some 8B/10B errors. But a total of the FCS check counter plus the other frame-oriented counters e.g. aAlignmentErrors will catch them. So for half-way usable or good links. aPCSCodingViolation will under-estimate the number of errors. Further, this counter will run up to silly numbers on a burst, masking any information about the quality of the link.

And it makes the management of different speeds more different than it need be, as this counter seems to apply to some but not all port types.

SuggestedRemedy

If this counter is needed for anything (maybe it is needed for 10P/2B?) then explain, and give a reference, and reconsider how it interacts with FEC. Also add a throttle, at least optionally: could say that counting one for any block of 1000 octets is acceptable (SONET uses block checking), as is ignoring up to 1000 octets after an error (ESCON uses this blanking method).

If the counter is not needed, get rid of it.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Discus - if these issues are all true hasn't this counter got to the point where it no longer of any use and should be removed.

C/ 30	SC 30.5.1.1.12	P 54	L 46	# 23	
Law, David		3Com			
Comment T	ype TR	Comment Status)		
	ibute aPCSCodin part of the RS.	gViolation should be	moved from the MAU	to the PHYEntity as it	t
SuggestedF	Remedy				

SuggestedRemedy

Move the attribute aPCSCodingViolation to be in the PHYEntity.

Proposed Response Response Status W

PROPOSED ACCEPT.

<i>Cl</i> 30 Dawe, Pie	SC 30.5.1.1.13	P 5 Agiler	-	L 17	# 640
Comment Rogue	<i>Type</i> E e capital	Comment Status	D		
Suggested Forwa	<i>lRemedy</i> rd s/b forward				
Proposed PROP	Response OSED ACCEPT.	Response Status	w		
C/ 30 Law, David	SC 30.5.1.1.15	Р 5 3Com		L 50	# 36

Comment Type TR Comment Status D

This counter cannot support the 10PASS-TS PHY since this counter is a per PHY counter, a count of FEC corrected blocks for the 10PASS-TS PHY would be a per PME counter and would need to be added to the PME object if require. In addition even if the attribute were to be provided there is no Clause 45 register to support it.

SuggestedRemedy

[1] Change the text 'For 10PASS-TS and 1000BASE-PX PHYs, a count of corrected ...' to read 'For 1000BASE-PX PHYs, a count of corrected ...'. [2] Remove the text relating to increment rate for 10Mb/s.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 30 SC 30.5.1.1.16 P L # 37	C/ 30 SC 30.5.1.1.4 P52 L40 # 597
A 30 SC 30.5.1.1.16 P L # 37 aw, David 3Com Comment Type TR Comment Status D This counter cannot support the 10PASS-TS PHY since this counter is a per PHY counter, a count of FEC uncorrected blocks for the 10PASS-TS PHY would be a per PME counter and would need to be added to the PME object if require. In addition even if the attribute were to be provided there is no Clause 45 register to support it. SuggestedRemedy [1] Change the text 'For 10PASS-TS and 1000BASE-PX PHYs, a count of uncorrected' to read 'For 1000BASE-PX PHYs, a count of uncorrected'. [2] Remove the text relating to increment rate for 10Mb/s. Proposed Response Response Status W	C/ 30 SC 30.5.1.1.4 P52 L 40 # 597 Squire, Matt Hatteras Networks Comment Type TR Comment Status D Cu STF We added a "available reduced" state to the aMediaAvailable, but I don't see how to interpret it. One doesn't really know the aggregate group to which a PME belongs unless the PME is thru handshaking so that the discovery process completed and the discovery registers exchanged. If it was up, once you get a link fault, you don't know that the discovery information for that PME is valid any more, so you can't just say that group is operating at reduced capacity - that PME may have been reassigned. And if the PME was never up, then you don't know which aggregate group it should belong to, and you can't determine which group is "reduced".
PROPOSED ACCEPT. CI 30 SC 30.5.1.1.2 P 52 L 15 # 479 Schneiderheinze, Burkart Infineon Technologies Comment Type T Comment Status D link to MAU type to register defined in clause 45 in case of 2BASE-TL/10PASS-TS missing SuggestedRemedy add link to 45.2.1.1 (PMA/PMD) and to 45.2.3.1 (PCS) for 10PASS/2BASE	I guess every PCS to which a PME is mapped in the available register could be called reduced, but that doesn't seem right either. SuggestedRemedy Eliminate "available_reduced" or clarify how it works given the dynamic/discovered relationship between PMEs and their aggregates. Proposed Response Response Status W PROPOSED ACCEPT. The enumeration "available_reduced" will be removed.
Proposed Response Response Status W PROPOSED ACCEPT.	Cl 30 SC 30.5.1.1.4 P 53 L 43 # 480 Schneiderheinze, Burkart Infineon Technologies Comment Type E Comment Status D Cu STF not clear how the other enumeration types which are not covered by this paragraph map (i.e. PCS link fault, remote fault,) SuggestedRemedy add a note that other enumerates are not supported by 2BASE/10PASS Proposed Response Response Status W
	PROPOSED REJECT. The mapping is from the PHY type to the enumerations - if an enumeration is not covered for a particular PHY type it cannot occur.

C/ 30 SC 30.5.1.1.4

C/ 30 SC 30.5.1.1.6 P 54 L 28 # 272 Dawe, Piers Agilent	C/ 30 SC 30.5.1.1.6 P 54 L 28 # 276 Dawe, Piers Agilent
 Comment Type T Comment Status D Editorials on: 'Note that this counter will only increment for 10Mb/s baseband and broadband MAUs.' 1. Needs space between 10 and Mb/s 2. It would be better to clarify exactly which 10 Mb/s MAUs are and aren't affected. Either 	Comment Type T Comment Status D This doesn't say what is meant: 'While a 10PASS-TS or 2BASE-TL PMA/PMD is initializing, this bit shall also indicate link down (see 45.2.1.12).' In addition to what? Indicating (receive) link down is what it does anyway. I think the intent is that the bit should be in receive-link-down state when initializing even if the receive link is up. Or it might be
spell out these MAUs by name: 10BASE5, 10BASE2 and so on (8 of them?), or say that 10PASS-TS does not use jabber. SuggestedRemedy	that the bit should indicate during initialization as well as at other times. SuggestedRemedy Delete 'also', insert 'receive'.
Change to: Note that this counter will increment for 10 Mb/s baseband and broadband MAUs only (not for 10PASS-TS).	Proposed Response Response Status W This appears this comment is against text that appears in Clause 45.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	C/ 30 SC 30.5.1.3.1 P 54 L 32 # 273 Dawe, Piers Agilent
The space will be added between 10 and Mb/s. The intention of using the terms Baseband and Broadband was to avoid having to list a whole set of 100, 1000 and 10G PHYs that do not increment the counter - listing 10PASS- TS as a special exception seems odd.	Comment Type E Comment Status D This subclause is out of place. It should be on p56, after 30.5.1.1.16 SuggestedRemedy Please move it.
C/ 30 SC 30.5.1.1.6 P 54 L 28 # 271 Dawe, Piers Agilent	Proposed Response Response Status W PROPOSED ACCEPT.
Comment Type T Comment Status D This doesn't say what is meant: 'Note that this counter will only increment for 10Mb/s baseband and broadband MAUs.' As opposed to decrement, I presume.	C/ 30 SC 31.12.2.1.3 P 74 L 54 # 198 Beck, Michael Alcatel Bell nv Alcatel Sell nv # 198
SuggestedRemedy Change to: Note that this counter will increment for 10 Mb/s baseband and broadband MAUs only. And see editorial comment.	Comment Type E Comment Status D Cu STF Missing cross-reference. SuggestedRemedy Cu STF
Proposed Response Response Status W PROPOSED ACCEPT.	Cross-reference should be: "10P/2B TC encapsulation error counter" 45.2.6.9. Proposed Response Response Status W PROPOSED ACCEPT.

C/ 30	SC Table 30-1	b P3	7 l	.5	# 395
Law, David		3Con	ו		
Comment T	ype E	Comment Status	D		
30-1a, 3 "100/10 (Optiona	30-1b, 30-1c, 30- 00 Mb/s Monitor	bund on Page 48 of 1d, and 30-1e, char Capability (Optiona n implemented in th	nge the DTE ar I)" to read "PH`	d MAU column I Y Error Monitor C	neading Capability
		ction wasn't carried which may have le			shown in IEEE
SuggestedF	Remedy				
change		added that states 'Ir heading '100/1000 ability (optional)"			
		ding '100/1000 Mb/ vn be change to rea			
Proposed R PROPC	esponse DSED ACCEPT.	Response Status	w		
C/ 30A	SC 30A.20.2	P1	67	. 17	# 400
Law, David		3Con	ı		
oamLoo	ibute is names 'a calErrFrameSecs ' oamLocalErrF	Comment Status aOAMLocalErrFram Config(266)' and th FrameConfig(266)' a	eConfig' yet the e behaviour '(N	o Suggestions) t	the arc to be
Proposed R PROPC	esponse SED ACCEPT II	Response Status N PRINCIPLE.	w		
	will be corrected bute and behavio	l to ' oamLocalErrf our name.	FrameSecsSun	nmaryConfig(266	i)' which matchs
Cl 30A Law, David	SC 30A.8.1	P1 3Con		. 13	# 399
Comment T Change		Comment Status 0A.8.1 and 30A.8.2		ges to 30A.4.2.	
SuggestedF Re-orde		so that the change	s to 30A.4.2 co	me first.	
Proposed R	esponse	Response Status	w		

C/ 30B SC 30B Dawe, Piers	P 176 Agilent	L	# 302
Comment Type E Subscribe	Comment Status D		
SuggestedRemedy Subscriber			
Proposed Response PROPOSED ACCEPT	Response Status W		
CI 31A SC	P 181	L 23	# 194
Kramer, Glen	Teknovus		
Comment Type T Table 31A-3:	Comment Status D		
Text in the Interpretation	on column is inaccurate and a	ambiguous.	
SuggestedRemedy			
Use the following desc	ription		
length: Interval of time	mission should be initiated during which transmission is grant was received and is qu		ctivation
Proposed Response	Response Status W		

SC

PROPOSED ACCEPT.

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Page 32 of 146 C/ 31A

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C/ 31A SC P 181 L 32 # 193 Kramer, Glen Teknovus	C/ 31A SC 31A P 180 L 18 # 279 Dawe, Piers Agilent
Comment Type T Comment Status D Table 31A-3: description of force_report is inaccurate.	Comment Type T Comment Status D Does unidirectional mode inhibit the use of PAUSE? Which takes precedence, the far end telling a station to stop transmitting frames, or the OAM layer saying it may? Does 'non- control frames' in table 31A-1 exclude OAM frames or just MCPC frames? Table 31A-2 mentions 'data frames' - should the terminology be aligned?
"The OLT expects the ONU to generate a REPORT at the next transmission opportunity following this indication."	SuggestedRemedy 57.1.5.3 seems clearer. If it's right, clarify 31A?
When GATE message is received, each grant is indicated to the MAC Control client, including any grant with force_report=true. However, there may be many transmission opportunities before this grant becomes active. SuggestedRemedy	 Proposed Response Response Status W PROPOSED REJECT. 31 beahvioral model is unaffected by OAM as OAM PDUs are treated as any other MAC client.
"The OLT expects the ONU to transmit a REPORT messgae during the transmission opprtunity identified by start and length fields."	C/ 31A P 181 L 26 # 303 Dawe, Piers Agilent
Same change for the "force_report = false" table entry. Proposed Response Response Status W PROPOSED ACCEPT.	Comment Type T Comment Status D Grammar SuggestedRemedy
C/ 31A SC P 182 L 14 # 195 Kramer, Glen Teknovus	Change 'was' to 'has been'. Proposed Response Response Status W
Comment Type T Comment Status D	PROPOSED ACCEPT.
Text "Indicates amount or pending transmission in the corresponding queue" is confusing and ambiguous. SuggestedRemedy	C/ 31A SC 31A P 182 L 50 # 304 Dawe, Piers Agilent
Use the following text	Comment Type E Comment Status D is a requested ?
"Indicates amount of data waiting in the corresponding queue including the associated transmission overhead"	SuggestedRemedy
Proposed Response Response Status W PROPOSED ACCEPT.	is requested? has been requested? Also font size in central column. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Is requested

Cl 43B Dawe, Pie	SC 43B	P 185 Agilent	L 56	# 654
Comment Wrong	t <i>Type</i> E g year	Comment Status D		
Suggeste s/b 20				
Proposed Response PROPOSED ACCEPT.		Response Status W		
<i>Cl</i> 45 Law, Davi	SC 45	Р 79 3Com	L 1	# 403

Comment Type TR Comment Status D

Please add a register to support the aPHYCurrentStatus attribute (30.12.1.1.3).

As part of this clarification of the value 'no PMEAssigned' and 'noPeerPMEPresent' should be clarified.

'no PMEAssigned'

Does it mean that the physical layer is not up or does it mean that the PME Aggregation register has just 1 bit set with the PAF enable bit not set (no PAF) or does it relate to something else?

'noPeerPMEPresent'

Again, it is not clear to what condition this relates to, is it that the physical link is not up, that the remote TC is not synchronized or is it intended to use some PMD parameter or is it the result of the discovery phase, saying there is no link to be aggergatable with the selected one??

SuggestedRemedy

See comment.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Ick. It would seem that this attribute is referring to functionality that has not really been discussed. Perhaps the attribute can be changed to reflect 1.69 instead?

Otherwise, we'll have to add the register.

<i>Cl</i> 45 Dawe, Piers	SC	45	P 7 Agiler	-	L 6	# 6	47
Comment Ty 10Gb/s	/pe	Е	Comment Status	D			
SuggestedR 10 Gb/s	emec	ły					
Proposed Re PROPO		nse ACCEPT.	Response Status	W			
<i>Cl</i> 45 Dawe, Piers	SC	45	P 7 Agiler	-	L 6	# 6	46
Comment Ty Draft 4.0	,	E EE P802	Comment Status .3ak?	D			
SuggestedR s/b at lea		•					
Proposed Re PROPO	•	nse ACCEPT.	Response Status	w			
CI 45	SC	45	P8	0	L1	# 3	9
Law, David			3Com	ı		-	
Comment Ty	/pe	TR	Comment Status	D			
		g violatior specific te	ns register is missing ext reads:	. In subo	clause 61.3.3.7.2	'Receive st	ate
	s sigr 7). Th	nal is asse	erted, the Coding viol value of this variable				
Unfortur	atelv	when I lo	ok at 45.2.3.17 it is tl	ne '10P/	2B capability regi	ister' so this	seems to

Unfortunately when I look at 45.2.3.17 it is the '10P/2B capability register' so this seems to be broken. A search of Clause 45 for the 'Coding violation counter' referenced in subclause 61.3.3.7.2 didn't report anything, nor do a search of Clause 45 for a counter that looked like it might be the Coding violation counter.

SuggestedRemedy

Add the TC coding violations counter to Clause 45.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

See 254

			1 002.5411	
C/ 45 SC 45 Dawe, Piers	P 80 Agilent	L 11	# 274	C/ 45 SC 45.2 P 82 L7 # 83 Law, David 3Com
Comment Type E Need space between 10	Comment Status D 000 and Mb/s			Comment Type E Comment Status D The hash symbol should not be used.
SuggestedRemedy Insert space				[Comment provided by Edward Turner] SuggestedRemedy
Proposed Response PROPOSED ACCEPT.	Response Status W			Replace with "number". Proposed Response Response Status W
C/ 45 SC 45.1 Dawe, Piers	P 80 Agilent	L11	# 648	PROPOSED ACCEPT.
Comment Type E	Comment Status D			C/ 45 SC 45.2.1 P L # 254 Squire, Matt Hatteras Networks Hatteras Networks
1000Mb/s SuggestedRemedy 1000 Mb/s				Comment Type TR Comment Status D There's an XREF for the TPS-TC coding violations in 30.12.2.1.3. Basically, I think the variable is missing from C45, 45.2.1
Proposed Response PROPOSED ACCEPT.	Response Status W			SuggestedRemedy Add a per-PME TPS-TC coding violation counter to C45, and correct the reference.
C/ 45 SC 45.1 Dawe, Piers	P 80 Agilent	L11	# 282	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Comment Type E Missing space	Comment Status D			The per TPS-TC coding violations register was added via the remedy to Comment #73 on D3.0. It is now found in 45.2.6.9 under the name "TC encapsulation error counter".
SuggestedRemedy 1000 Mb/s				Fix cross references to point to 45.2.6.9. Rename register to "TPS-TC coding violations register"
Proposed Response PROPOSED ACCEPT.	Response Status W			C/ 45 SC 45.2.1 P 76 L 33 # 99327 Grow, Robert Intel
Cl 45 SC 45.2 Law, David Comment Type T	P 80 3Com Comment Status D	L 50	# 609	Comment Type TR Comment Status A o D3.0 #5 Mixing control and status in a register is a bad idea. We have avoided that in the past. This register (and other registers like 1.22) are named control, but have a least one status bit. o D3.0 #5
	contents" to "contents of the	e register pair"		SuggestedRemedy Separate the control and status bits into different registers for all new registers.
Comment from Ed Turn SuggestedRemedy	er.			Proposed Response Response Status U ACCEPT.
Proposed Response PROPOSED ACCEPT.	Response Status W			

			1 002.0011 E				
C/ 45 SC 45.2.1.1 Dawe, Piers	P 85 Agilent	L 32	# 275	C/ 45 SC 45.2.1.11.1 P 86 L 47 # 40 Law, David 3Com			
Comment Type E What's gone wrong he	Comment Status D re? The footnote in 802.3ae	s right, what's he	ere doesn't apply.	Comment Type T Comment Status D No PICS entry for the first "shall".			
SuggestedRemedy Footnote should be: R/W = Read/Write, SC Proposed Response	= Self Clearing Response Status W			[Comment provided by Edward Turner] SuggestedRemedy Add a PICS entry for the first shall statement.			
PROPOSED ACCEPT				Proposed Response Response Status W PROPOSED ACCEPT.			
Cl 45 SC 45.2.1.11 Schneiderheinze, Burkart Comment Type E	I P 87 Infineon Tech Comment Status D	L 21 nologies	# 431	C/ 45 SC 45.2.1.11.1 P 86 L 48 # 41 Law, David 3Com			
SC = Self Clearing def SuggestedRemedy remove				Comment Type T Comment Status D No PICS entry for the "shall".			
Proposed Response PROPOSED ACCEPT	Response Status W			[Comment provided by Edward Turner] SuggestedRemedy Add a PICS entry for the shall statement.			
C/ 45 SC 45.2.1.11 Schneiderheinze, Burkart	I .1 P 86 Infineon Tech	L 40 nologies	# 492	Proposed Response Response Status W PROPOSED ACCEPT.			
Comment Type TR Currently there is no m	Comment Status D	g down (NACK(C	D)a g.994.1 session	C/ 45 SC 45.2.1.11.1 P 86 L 48 # 283 Dawe, Piers Agilent			
	bit Clear Down in 10P/2BPMD	control register		Comment Type T Comment Status D Ambiguous: is this sentence 'Upon MMD reset, this bit shall be set to zero.' an instructive to the MMD's implementer or its user (the STA)? Could be either for a R/W bit.			
Proposed Response PROPOSED ACCEPT	Response Status W			SuggestedRemedy Please clarify.			
	in the table. Can we say tha ill be a "1" when the link is in			Proposed Response Response Status W PROPOSED REJECT.			
Why do we need this anyway?				Shalls cannot apply to the user.			

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C/ 45 SC 45.2.1.11.2	P 86	L 53	# 284	C/ 45 SC 45.2.1.11.4 P 87 L 37 # 84
lawe, Piers	Agilent			Law, David 3Com
Comment Type E Co only in the wrong place	omment Status D			Comment Type E Comment Status D The statement "is a traffic disruptive operation" sounds awkward.
SuggestedRemedy Change to 'Writing to this bit	is valid only when'			[Comment provided by Edward Turner]
roposed Response Res PROPOSED ACCEPT.	sponse Status W			SuggestedRemedy Replace with "may corrupt the data on the link"
A 45 SC 45.2.1.11.2	P 86	L 54	# 649	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Dawe, Piers	Agilent			Change to:
Down	omment Status D			Changing this bit alters the fundamental operation of the PMA/PMD, therefore, writes to change this bit shall be ignored if the link is up or initializing
uggestedRemedy down				C/ 45 SC 45.2.1.11.4 P 87 L 38 # 285 Dawe, Piers Agilent
Proposed Response Res PROPOSED ACCEPT.	sponse Status W			Comment Type E Comment Status D Missing .
2/ 45 SC 45.2.1.11.3 aw, David	Р 87 3Com	L 28	# 6	SuggestedRemedy
	omment Status D			Add . Also in 45.2.1.18, 45.2.1.21, 45.2.1.22, 45.2.1.26, 45.2.1.41, 45.2.1.42, 45.2.1.43 45.2.3.17.2, more.
The table says that "silence to description text also said this	ime" is measured in sec	conds. It would b	e helpful if the	Proposed Response Response Status W PROPOSED ACCEPT.
[Comment provided by Edwa	rd Turner]			C/ 45 SC 45.2.1.11.5 P87 L42 # 70
uggestedRemedy				Law, David 3Com
Add "(in seconds)" between "		d of the line.		Comment Type T Comment Status D
roposed Response Res PROPOSED ACCEPT.	sponse Status W			Correct '7' to be '6'.
				[Comment provided by Edward Turner]
				SuggestedRemedy See comment.
				Proposed Response Response Status W PROPOSED ACCEPT.

			P802.3ah	Draft 3.1 Comments
C/ 45 SC 45.2.1.11.8 Barry, O'Mahony	5 P 87 Intel	L 51	# 424	C/ 45SC 45.2.1.13P 89L 40#Schneiderheinze, BurkartInfineon Technologies
Comment Type E missing word "be"	Comment Status D			Comment Type T Comment Status D 2BASE also provides CRC counter register
SuggestedRemedy Change "may set" to "m	ay be set"			SuggestedRemedy also provides useful information add CRC counter register for local and link partner
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
C/ 45 SC 45.2.1.11.	5 P 87	L 54	# 425	Does g.SHDSL already provide the EOC commands to transfer this info?
SuggestedRemedy Change from: "If the "-R" is not capable may behave as 10PASS to: "If the "-R" is not capable	Intel <i>Comment Status</i> D whavoir of PHY's ambiguous i e of the "preferred" mode, the S-TS or 2BASE-TL respective e of the "preferred" mode, the 2BASE-TL respectively." <i>Response Status</i> W	è "-R" lly."		Cl 45 SC 45.2.1.13 P 89 L 49 # 613 Law, David 3Com Comment Type E Comment Status D Change "send" to "sent" Comment from Ed Turner. SuggestedRemedy Proposed Response Response Status W PROPOSED ACCEPT.
Cl 45 SC 45.2.1.12 Dawe, Piers </td <td>P 88 Agilent</td> <td>L16</td> <td># 290</td> <td>CI 45 SC 45.2.1.13 P 89 L 52 # 293 Dawe, Piers Agilent Agilent</td>	P 88 Agilent	L16	# 290	CI 45 SC 45.2.1.13 P 89 L 52 # 293 Dawe, Piers Agilent Agilent
Comment Type E K = 1024 SuggestedRemedy kb/s	Comment Status D			only defined. Not what? used? SuggestedRemedy Change this and its several clones to: This register is defined for "-O" port sub-types only.
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.

	Dee	154	# 104		# 440
C/ 45 SC 45.2.1.13 Schneiderheinze, Burkart	P 89 Infineon Techn	L 54 nologies	# 491	C/ 45 SC 45.2.1.13.1 P 90 L 18 Law, David 3Com 3Com	# 113
not clear how link partner reset? SuggestedRemedy add a note that the behavi exactly the same as for the	Comment Status D register 'react' on a read ar four of Link Partner register e local register Response Status W	-		Comment Type E Comment Status D Suggest the text can be clarified. [Comment provided by Edward Turner] SuggestedRemedy Change 'one, the PHY updates all link partner' to 'one, the '-O' PHY updates all link partner' Proposed Response Response Status W PROPOSED ACCEPT.	ates its link
Cl 45 SC 45.2.1.13 Law, David Comment Type E It may be useful to add '(' register subsection headir Turner] SuggestedRemedy See comment.	P 89 3Com Comment Status D O' PHY only)' to the subsect ogs that are for the -O PHY Response Status W			Cl 45 SC 45.2.1.13.1 P 90 L 20 Law, David 3Com Comment Type T Comment Status D The word "must" is used here and on line 30. [Comment provided by Edward Turner] SuggestedRemedy Change to "shall" or "will". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	# 65
The operation of these bits also be status bits is not a register should be able to the device/MMD has been SuggestedRemedy Redefine and separate the confusing bits.	P77 Intel Comment Status A s is not consistent with that common function. STA if read that register and alwa reset. e control and status function Response Status U	writing a valid v ys get back the	alue to a control value written unless	If the "" operation does not complete within 10 seconds Cl 45 SC 45.2.1.13.2 P 90 L 28 Law, David 3Com Comment Type E Comment Status D Suggest the text can be clarified. [Comment provided by Edward Turner] SuggestedRemedy Change 'the PHY' to 'the '-O' PHY' Proposed Response Response Status W PROPOSED ACCEPT.	# <u>114</u>

Cl 45 SC 45.2.1.13.2 Law, David	Р 90 3Com	L 29	# 606	Cl 45 SC 45.2.1.15 Schneiderheinze, Burkart	Р 91 Infineon Tech	L 37 Inologies	# 433
Comment Type T Incorrect reference.	Comment Status D			Comment Type E remove 'CROSS REF'	Comment Status D		
Comment from Ed Turnel SuggestedRemedy	r.			SuggestedRemedy remove 'CROSS REF'			
Change reference "45.2.	1.14" to "45.2.1.22"			Proposed Response	Response Status W		
Proposed Response PROPOSED ACCEPT.	Response Status W			PROPOSED ACCEPT. 		L 32	# 71
Cl 45 SC 45.2.1.13.2 Schneiderheinze, Burkart	. P 90 Infineon Techi	L 29	# 432	Law, David	3Com Comment Status D		
Comment Type E	Comment Status D	lologies			clause that describes how th	is register is used	J.
wrong cross reference				[Comment provided by	Edward Turner]		
SuggestedRemedy change 45.2.1.14 to 45.2	.1.21			SuggestedRemedy See comment.			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
C/ 45 SC 45.2.1.14.1 Law, David	Р 90 3Com	L 51	# 42	C/ 45 SC 45.2.1.2.1 Grow, Robert	P 73 Intel	L 33	# 99329
Comment Type T No PICS entry for the "sh	Comment Status D			Comment Type TR It is not clear in what co	Comment Status A	oplies.	o D3.0 #541
[Comment provided by E SuggestedRemedy	dward Turner]			SuggestedRemedy Change to read: "For 1 been detected and mor	DPASS-TS or 2BASE-TL ope e detailed"	erations, when re	ad as one, a fault has
Add a PICS entry for the				Proposed Response	Response Status U		
Proposed Response PROPOSED ACCEPT.	Response Status W			ACCEPT.			
C/ 45 SC 45.2.1.15 Dawe, Piers	P 91 Agilent	L 33	# 650				
Comment Type E Missing period	Comment Status D						
SuggestedRemedy "Also p93 lines 6, 28, p10)7 line 6, 25 and 54 and mo	re"					
Proposed Response PROPOSED ACCEPT.	Response Status W						

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

C/ 45 SC 45.2.1.2.2 Copied from C30 #276	P 86	L 5	# 45001	<i>Cl</i> 45 Law, Davi
Comment Type T	Comment Status D			Comment
51	meant: 'While a 10PASS-T	S or 2BASE-TL I	PMA/PMD is	There
initializing, this bit shall	also indicate link down (see	45.2.1.12).' In a	addition to what?	PHY.
	down is what it does anywa state when initializing even			when
that the bit should indica	ate during initialization as we	ell as at other tim	ies.	[Com
SuggestedRemedy				Suggeste
Delete 'also', insert 'rece	eive'.			Eithe
Proposed Response	Response Status W			the '-I
PROPOSED ACCEPT I				1.41 t R' ST
				Proposed
"While a 10PASS-TS or link down (see45.2.1.12	2BASE-TL PMA/PMD is ini	tializing, this bit :	shall indicate receive	PRO
	,			
C/ 45 SC 45.2.1.2.2		L 5	# 21	See 4
Law, David	3Com			"Whe
Comment Type T	Comment Status D			thresl
There's an extra "shall"	statement added here but n	o new, nor chang	ge to the existing, PICS	the P
entry is provided.				comp the o
[Comment provided by I	-dward Turner]			PHY
SuggestedRemedy				result
,	or modify the existing PIC	Sontry for subso	ction 45 2 1 2 2	C/ 45
	, 0	b entry for subse	611011 43.2.1.2.2.	Law, Davi
Proposed Response	Response Status W			
PROPOSED ACCEPT.				Comment
				Add a
				thres

Cl 45	SC 45.2.1.21	P 93	L 1	# 5	
Law, David		3Com			

Comment Type T Comment Status D

There is no way an '-R' PHY can know when this register has been updated by an '-O' PHY. Maybe the '-R' PHY doesn't need to know. The '-O' PHY has register 1.33 to tell it when the link partner communication has completed.

[Comment provided by Edward Turner]

SuggestedRemedy

Either define a default for bits 15-4 that is not a valid operational value (dangerous) so that the '-R' PHY can poll the register to see when it's been updated. Or, add a bit to register 1.41 that is set to a "1" when the '-O' PHY has written to it and is cleared to a "0" when the '-R' STA reads from the PHY.

Proposed Response Response Status W

PROPOSED REJECT.

See 45.2.1.13.2.

"When this bit is set to a one, the PHY sends the contents of the 2B link partner line quality thresholds register (see 45.2.1.14) to the link partner. While the operation is in progress, the PHY shall keep the bit set as one. The "Send Link partner parameters" operation must complete within 10 seconds, or its result shall be marked as "failed" (see 45.2.1.14) and the operation marked as "complete". After completion of the operation or upon reset, the PHY shall reset the bit to zero. A write to this bit when link is down shall cause the result to be marked as "failed" and the operation marked as "complete"."

C/ 45	SC 45.2.1.21	P 93	L 21	# [72
Law, David		3Com			

Comment Type T Comment Status D

Add a subclause with definitions for the loop attenuation threshold bits and the SNR margin threshold bits. Also reference the clause that uses these values.

[Comment provided by Edward Turner]

SuggestedRemedy

See comment.

Proposed Response Response Status W PROPOSED ACCEPT.

			P802.3a	ah Draft 3.1 Comments
C/ 45 SC 45.2.1.21 Law, David	Р 93 3Com	L 3	# 614	C/ 45 SC 45.2.1.24 P 94 L 8 # 74 Law, David 3Com 3Com
Comment Type E Missing "s" off the end of	Comment Status D of "threshold"			Comment TypeTComment StatusDAdd a reference to the clause where the FEC counter is described.
Comment from Ed Turn	ner.			[Comment provided by Edward Turner]
SuggestedRemedy				SuggestedRemedy See comment.
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
Cl 45 SC 45.2.1.21 Schneiderheinze, Burkart	P 93 Infineon Tech	L 4 nologies	# 493	Cl 45 SC 45.2.1.25 P 94 L 19 # 607 Law, David 3Com
Comment Type E 10PASS-TS missing	Comment Status D			Comment Type T Comment Status D Is this register actually the "10P/2B Electrical Length Register" ? (Like 1.48) If so, change
SuggestedRemedy add 10PASS-TS				the name here to the full name and update table 45-2 as well. Comment from Ed Turner.
Proposed Response PROPOSED ACCEPT.	Response Status W			SuggestedRemedy
C/ 45 SC 45.2.1.23 Law, David	Р 93 3Com	L 39	# 73	Proposed Response Response Status W PROPOSED REJECT.
Comment Type T	Comment Status D			2B does not support electrical length.
Add a reference to the	clause where the FEC counter	er is described.		C/ 45 SC 45.2.1.26 P94 L 40 # 494
[Comment provided by	Edward Turner]			Schneiderheinze, Burkart Infineon Technologies
SuggestedRemedy See comment.				Comment TypeEComment StatusD2B does not support electrical length (as indicated in 45.2.1.25)
Proposed Response PROPOSED ACCEPT.	Response Status W			SuggestedRemedy remove 2B in heading and following paragraph
				Proposed Response Response Status W PROPOSED ACCEPT.

SC 45.2.1.26

C/ 45 SC 45.2.1.27 P 95 L 1 # 86 Law, David 3Com 3Co	Cl 45 SC 45.2.1.3 P73 L 40 # 99330 Grow, Robert Intel
Comment Type E Comment Status D	Comment Type TR Comment Status A o D3.0 #5
The word "may" is a reserved word (See IEEE-SA Style Manual). 13. Word usage ====================================	This paragraph in its current form is likely to generate interpretations requests. The section is about two registers yet it uses the phrase "this register", etc. If these registers are part of the Link Partner MMD, it can only have one value as well as bit definition and the paragraph is not needed, it can simply be referenced. If the Link Partner MMD can have a
13.1 Shall, should, may, and can	different value (e.g., the link partner's PMD/PMD device identifier), then it isn't the same registers but two different registers that have the same format.
	SuggestedRemedy
<snip></snip>	Delete the added paragraph, and correct by adding a description of the registers in 45.7. Reference 1.2, 1.3 definitions for format rather than replicating.
The word may is used to indicate a course of action permissible within the limits of the standard (may equals is permitted).	Proposed Response Response Status U ACCEPT IN PRINCIPLE.
[Comment provided by Edward Turner]	Change text to read "these registers"
SuggestedRemedy	Change text
Change " may be" to " are". Also line 21. Proposed Response Response Status W	"this register is a member of the Link Partner PMA/PMD MMD."
PROPOSED ACCEPT.	to read
C/ 45 SC 45.2.1.28 P 95 L 22 # 115 Law, David 3Com 3Com <td>"Therefore, the Link Partner PMA/PMD MMD also contains PMA/PMD device identifier registers with the same format described here."</td>	"Therefore, the Link Partner PMA/PMD MMD also contains PMA/PMD device identifier registers with the same format described here."
Comment Type E Comment Status D Is this register for the -O PHY only? It seems to be. [Comment provided by Edward Turner]	C/ 45 SC 45.2.1.3.6 P100 L 32 # 12 Law, David 3Com
SuggestedRemedy If this register is for the -O PHY only, then add text to say 'This register is only for the '-O' port sub types' (as in other register descriptions).	Comment TypeTComment StatusDThere is only a subsection definition for the bit "Refresh status".
Also possibly needed for: 45.2.1.29, 45.2.1.30, 45.2.1.31, 45.2.1.32, 45.2.1.36, 45.2.1.37, 45.2.1.38.	[Comment provided by Edward Turner] SuggestedRemedy
Proposed Response Response Status W	Add subsections with definition text for all the other bits in the register.
PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W
All except .37 and .38	PROPOSED ACCEPT.

P802.3ah Dra	t 3.1 Comme	nts
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Cl 45 SC 45.2.1.30 P 96 L 19 # Law, David 3Com 3 <td< th=""><th>8 C/ 45 SC 45.2.1.36 P 99 L 33 # 87 Law, David 3Com 3Com</th></td<>	8 C/ 45 SC 45.2.1.36 P 99 L 33 # 87 Law, David 3Com 3Com
Comment TypeTComment StatusDThere is no subclause (i.e. 45.2.1.30.1) to define the behaviour of bit 1.53.0.	Comment Type E Comment Status D The abbreviation "who's" is for "who is" and is incorrect in this instance.
[Comment provided by Edward Turner] SuggestedRemedy Add a subsection with a description of the behaviour of this bit. Proposed Response Response Status W	[Comment provided by Edward Turner] SuggestedRemedy Replace with "whose" meaning "belonging to". Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED ACCEPT.
Do not add subsection, instead elaborate in the 45.2.1.30 C/ 45 SC 45.2.1.32 P 97 L 1 #	C/ 45 SC 45.2.1.36.1 P 100 L 32/33 # 608 Law, David 3Com 3Com
Law, David 3Com Comment Type T Comment Status D There is no subsection to define the behaviour of bit 1.56.0.	Comment Type T Comment Status D The bit "Refresh tone table" does not exist in register 1.64 Is it the "Refresh tone status" bit ? If so, change the text here.
[Comment provided by Edward Turner] SuggestedRemedy Add a subsection with a description of the behaviour of this bit.	Comment from Ed Turner. SuggestedRemedy
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W PROPOSED ACCEPT.
Do not add subsection, instead elaborate in the 45.2.1.32	Change to "tone status bit"
C/ 45 SC 45.2.1.32 P 97 L 4 #	C/ 45 SC 45.2.1.38 P 101 L 47 # 286 617 Dawe, Piers Agilent
Comment Type E Comment Status D Change "for 10P" to " for the 10P"	Comment Type E Comment Status D Punctuation.
Comment from Ed Turner. SuggestedRemedy	SuggestedRemedy Change to: PMA (see 62.2.4.3).
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.

C/ 45 SC 45.2.1.4 P103 L 23	# 555	C/ 45	SC 45.2.1.40	P103	L 21	# 2
Schneider, Kevin Adtran		Law, David		3Com		
Comment Type TR Comment Status D		Comment		Comment Status D	2	
SHDSL.bis specifies up to 8 data ranges while this register restrict it to on	lly 4.			Change to "link partner" occurrences and change		
SuggestedRemedy	_			Ũ		
Change from 4 to 8 data ranges and update the registers to reflect 8 rang	le.	•	ent provided by	Edward Turnerj		
Proposed Response Response Status W PROPOSED ACCEPT.		Suggested	,	of "peer" to "link partner	n	
PROPOSED ACCEPT.		-				
CI 45 SC 45.2.1.4 P103 L 23	# 389	Proposed I	Response DSED ACCEPT.	Response Status W		
kimpe, marc Adtran		FROF	JSED ACCEPT.			
Comment Type TR Comment Status D		C/ 45	SC 45.2.1.40	P 103	L 25	# 495
SHDSL.bis specifies up to 8 data ranges while this register restrict it to on	nly 4.	Schneiderh	einze, Burkart	Infineon T	echnologies	
SuggestedRemedy		Comment	51	Comment Status D		
Change from 4 to 8 data ranges and update the registers to reflect 8 rang	e.			range is specified with di probing'. Not clear on w		
Dramanad Daamanaa Statua W		FIVIA/F				e probing should take
Proposed Response Response Status W		place,	what the PMMS	probe duration should be	. Additionally each	SHDSL PHY requests
PROPOSED ACCEPT.				brobe duration should be rom the other side	. Additionally each	SHDSL PHY requests
		prodict Suggested	specific probes f Remedy	rom the other side		
PROPOSED ACCEPT. See 555	# 640	prodict Suggested remove	specific probes f Remedy e sentence and a	rom the other side dd PMMS bit in i.e. 2B ge	eneral parameter re	egister. The description
PROPOSED ACCEPT. See 555 C/ 45 SC 45.2.1.40 P103 L19	# <mark>619</mark>	prodict Suggested remove of the b	specific probes f Remedy e sentence and a bit shall mention	rom the other side	eneral parameter re	egister. The description data rates and probe
PROPOSED ACCEPT. See 555 C/ 45 SC 45.2.1.40 P 103 L 19 Law, David 3Com	# 619	prodict Suggested remove of the b	specific probes f Remedy e sentence and a bit shall mention n based on the ra	rom the other side dd PMMS bit in i.e. 2B ge when enabled that the SH	eneral parameter re	egister. The description data rates and probe
PROPOSED ACCEPT. See 555 Cl 45 SC 45.2.1.40 P103 L 19 .aw, David 3Com	# <mark>619</mark>	Prodict Suggested remove of the b duratio Proposed I	specific probes f Remedy e sentence and a bit shall mention n based on the ra	rom the other side dd PMMS bit in i.e. 2B ge when enabled that the SH anges defined in the 2B F	eneral parameter re	egister. The description data rates and probe
PROPOSED ACCEPT. See 555 Cl 45 SC 45.2.1.40 P103 L19 Law, David 3Com Comment Type E Comment Status D Change "set" to "sets"	# <mark>619</mark>	prodict Suggested remove of the b duratio Proposed I PROP	specific probes f Remedy e sentence and a bit shall mention n based on the r Response DSED ACCEPT.	rom the other side dd PMMS bit in i.e. 2B ge when enabled that the SH anges defined in the 2B F Response Status W	eneral parameter re IDSL PHY selects PMD parameters re	egister. The description data rates and probe egister.
PROPOSED ACCEPT. See 555 C/ 45 SC 45.2.1.40 P 103 L 19 .aw, David 3Com Comment Type E Comment Status D Change "set" to "sets" Comment from Ed Turner.	# <u>619</u>	Prodict Suggested remove of the b duratio Proposed I	specific probes f Remedy e sentence and a bit shall mention n based on the ra Response DSED ACCEPT. SC 45.2.1.40	rom the other side dd PMMS bit in i.e. 2B ge when enabled that the SH anges defined in the 2B F	eneral parameter re	egister. The description data rates and probe
PROPOSED ACCEPT. See 555 C/ 45 SC 45.2.1.40 P 103 L 19 .aw, David 3Com Comment Type E Comment Status D Change "set" to "sets" Comment from Ed Turner.	# <u>619</u>	Prodict Suggested remove of the b duratio Proposed H PROPO	specific probes f Remedy e sentence and a bit shall mention n based on the ra Response DSED ACCEPT. SC 45.2.1.40	rom the other side dd PMMS bit in i.e. 2B ge when enabled that the Sh anges defined in the 2B F Response Status W P103	eneral parameter re IDSL PHY selects PMD parameters re	egister. The description data rates and probe egister.
PROPOSED ACCEPT. See 555 Cl 45 SC 45.2.1.40 P 103 L 19 Law, David 3Com Comment Type E Comment Status D Change "set" to "sets" Comment from Ed Turner. SuggestedRemedy	# [<u>619</u>]	prodict Suggested remove of the b duratio Proposed I PROPO CI 45 Law, David Comment	specific probes f Remedy e sentence and a bit shall mention n based on the ra Response DSED ACCEPT. SC 45.2.1.40	rom the other side dd PMMS bit in i.e. 2B ge when enabled that the Sh anges defined in the 2B F <i>Response Status</i> W P103 3Com	eneral parameter re IDSL PHY selects PMD parameters re	egister. The description data rates and probe egister.
PROPOSED ACCEPT. See 555 Cl 45 SC 45.2.1.40 P103 L19 Law, David 3Com Comment Type E Comment Status D Change "set" to "sets" Comment from Ed Turner. SuggestedRemedy Proposed Response Response Status W	# <u>619</u>	Prodict Suggested remove of the b duratio Proposed I PROPO CI 45 Law, David Comment Chang	specific probes f Remedy e sentence and a bit shall mention of n based on the ra- Response DSED ACCEPT. SC 45.2.1.40 Fype E e "PMMS, link	rom the other side dd PMMS bit in i.e. 2B ge when enabled that the Sh anges defined in the 2B F <i>Response Status</i> W <i>P</i> 103 3Com <i>Comment Status</i> D ' to "PMMS, the link"	eneral parameter re IDSL PHY selects PMD parameters re	egister. The description data rates and probe egister.
PROPOSED ACCEPT. See 555 Cl 45 SC 45.2.1.40 P103 L 19 aw, David 3Com Comment Type E Comment Type E Comment Type E Comment Type E Comment from Ed Turner. SuggestedRemedy	# <u>619</u>	Prodict Suggested remove of the H duratio Proposed H PROPO C/ 45 Law, David Comment Chang Comm	specific probes f Remedy e sentence and a bit shall mention of n based on the ra- Response DSED ACCEPT. SC 45.2.1.40 Fype E e "PMMS, link' ent from Ed Turn	rom the other side dd PMMS bit in i.e. 2B ge when enabled that the Sh anges defined in the 2B F <i>Response Status</i> W <i>P</i> 103 3Com <i>Comment Status</i> D ' to "PMMS, the link"	eneral parameter re IDSL PHY selects PMD parameters re	egister. The description data rates and probe egister.
PROPOSED ACCEPT. See 555 Cl 45 SC 45.2.1.40 P103 L19 Law, David 3Com Comment Type E Comment Status D Change "set" to "sets" Comment from Ed Turner. SuggestedRemedy Proposed Response Response Status W	# <u>619</u>	Prodict Suggested remove of the b duratio Proposed I PROPO CI 45 Law, David Comment Chang	specific probes f Remedy e sentence and a bit shall mention of n based on the ra- Response DSED ACCEPT. SC 45.2.1.40 Fype E e "PMMS, link' ent from Ed Turn	rom the other side dd PMMS bit in i.e. 2B ge when enabled that the Sh anges defined in the 2B F <i>Response Status</i> W <i>P</i> 103 3Com <i>Comment Status</i> D ' to "PMMS, the link"	eneral parameter re IDSL PHY selects PMD parameters re	egister. The description data rates and probe egister.
PROPOSED ACCEPT. See 555 Cl 45 SC 45.2.1.40 P103 L19 Law, David 3Com Comment Type E Comment Status D Change "set" to "sets" Comment from Ed Turner. SuggestedRemedy Proposed Response Response Status W	# <u>619</u>	Prodict Suggested remove of the H duratio Proposed H PROPO C/ 45 Law, David Comment Chang Comm	specific probes f Remedy e sentence and a bit shall mention v n based on the ra- Response DSED ACCEPT. SC 45.2.1.40 Type E e "PMMS, link' ent from Ed Turn Remedy	rom the other side dd PMMS bit in i.e. 2B ge when enabled that the Sh anges defined in the 2B F <i>Response Status</i> W <i>P</i> 103 3Com <i>Comment Status</i> D ' to "PMMS, the link"	eneral parameter re IDSL PHY selects PMD parameters re	egister. The descriptior data rates and probe egister.

Cl 45 SC 45.2.1.40 Dawe, Piers	P 103 Agilent	L 29	# 287	Cl 45 SC 45.2.1.40 P 104 L 11 # 288 Dawe, Piers Agilent	
Comment Type E Com Please don't introduce more ne is to be written in human langua		nines into this sta	ndard! The main text	Comment Type E Comment Status D Consistency. SuggestedRemedy	
SuggestedRemedy Replace == with 'is' or 'equals'. Proposed Response Response PROPOSED ACCEPT IN PRIN	onse Status W			Replace all instances of 'kbps' with 'kb/s' <i>Proposed Response</i> Response Status W PROPOSED ACCEPT.	
Use "equals"				Cl 45 SC 45.2.1.40 P104 L 23 # 497 Schneiderheinze, Burkart Infineon Technologies	
<i>Cl</i> 45 SC 45.2.1.40 Law, David	P 103 3Com	L 29	# 621	Comment Type T Comment Status D Power already defined by Annex and data rate, additional specification not necessa	ary
Comment Type E Com. Too many "=" symbols (C notati else it appears in C45. Comment from Ed Turner. SuggestedRemedy	iment Status D ion?). Change "==" t	o "=" in two place	s here and anywhere	SuggestedRemedy remove power fields in 2B PMD register, align additionally all fields to 8 bit bounda Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Synchronize with comment #555	ry
Proposed Response Respo PROPOSED ACCEPT IN PRIN	onse Status WI			Residual register numbers will be marked as reserved. Cl 45 SC 45.2.1.40 P 104 L 25 # 496 Schneiderheinze, Burkart Infineon Technologies	j
see 287 C/ 45 SC 45.2.1.40 Law, David	P 103 3Com	L 30	# 622	Comment Type E Comment Status D not clear what automatic means SuggestedRemedy	
Comment Type E Com Change "and link" to "and th	ment Status D he link"			add description that automatic means the selection of the constellation is up to the <i>Proposed Response</i> Response Status W PROPOSED ACCEPT.	PHY
Comment from Ed Turner. SuggestedRemedy				TROFOSED AGGEFT.	
Proposed Response Respo	onse Status W				

PROPOSED ACCEPT.

Cl 45 SC 45.2.1.40 Schneiderheinze, Burkart	P 104 Infineon Techr	L 8 nologies	# 498	<i>Cl</i> 45 Dawe, Piers	SC 45.2.1.43	P 106 Agilent	L 31	# 292
Comment Type T Comme the -R device needs also write acc capabilites SuggestedRemedy	nt Status D tess to 2B PMD reg	gister in order to	b limit ranges to its	Comment Typ Font size SuggestedRe		Comment Status D		
	ess to this register e Status W			Proposed Res		Response Status W		
PROPOSED REJECT. The mode is always set by the -O.	All compliant 2BA	ASE-TL PHYs m	nust support all modes.	Cl 45 Schneiderheir	SC 45.2.1.43 nze, Burkart	P 106 Infineon Tec	L 39 hnologies	# 500
Cl 45 SC 45.2.1.40 Schneiderheinze, Burkart	P 105 Infineon Techr	L 40 nologies	# 499	Comment Typ non roll o		Comment Status D is not described		
Comment Type T Comment not clear where the current data rate	<i>nt Status</i> D ite should be put ir	1		SuggestedRe remove N				
SuggestedRemedy define a new register (16 bit) which constellation (8 bit)	n contains the neg	otiated data rate	e (8 bit) and the	Proposed Res	sponse ED ACCEPT.	Response Status W		
	e Status W PLE.			C/ 45 Law, David	SC 45.2.1.49	Р 108 3Com	L 7	# 3
Current data rate is found in 1.31.1	15:5.			Comment Typ What has		Comment Status D able? Add a sentence to cla	nrify.	
Add a register for negotiated const	tellation.			[Commer	t provided by	Edward Turner]		
C/ 45 SC 45.2.1.42 Dawe, Piers	P 106 Agilent	L16	# 291	SuggestedRe See com	medy			
Comment Type E Comme Never decrement? only in the wro	nt Status D ng place.			Proposed Res PROPOS	sponse ED ACCEPT.	Response Status W		
SuggestedRemedy Change 'its value will only increme refreshed.' Also in 45.2.1.46, 45.2			ill increment only when	Cl 45 Schneiderheir	SC 45.2.1.49 nze, Burkart	P 108 Infineon Tec	L 7 hnologies	# 501
Proposed Response Respons PROPOSED ACCEPT IN PRINCIF	e Status W			Comment Typ counter is	be E 8 bit wide	Comment Status D		
Should actually be:				SuggestedRe 8.bit cour				
'its value will only change when ref	freshed'			Proposed Res PROPOS	sponse ED ACCEPT.	Response Status W		

C/ 45 SC 45.2.3. P112 L7 # 434 C/ 45 SC 45.2.3.18 P114 L 48 # 651 Dawe. Piers Schneiderheinze, Burkart Infineon Technologies Aailent Comment Status D Comment Status D Comment Type **T** Comment Type E Register 3.72 appears twice simultaneously. (default) SuggestedRemedy SugaestedRemedv change PAF lost end from 72 to 73, change start of reserved registers accordingly remove the . Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 45 SC 45.2.3.17 P114 L5# 294 C/ 45 SC 45.2.3.18 P114 L 54 # 435 Dawe, Piers Agilent Schneiderheinze, Burkart Infineon Technologies Comment Type **T** Comment Status D Comment Type E Comment Status D This sentence is incorrect: 'The 10P/2B capability register controls general functions of the typo: R/O instead of RO PHY.'. Because that's what a control register is for. A capability register reports capability. SuggestedRemedy doesn't control. change R/O to RO SuggestedRemedy Response Status W Proposed Response Change 'controls' to 'reports' or similar. PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. C/ 45 SC 45.2.3.18 P115 L 22 # 503 Schneiderheinze. Burkart Infineon Technologies 'The 10P/2B capablity register reports which functions are supported by the PCS.' Comment Status D Comment Type T C/ 45 SC 45.2.3.17.2 P114 L 33 # 611 term 'link established' is just local, how do I set the PAF enable side on the -R device? 3Com Law, David SuggestedRemedy Comment Type **T** Comment Status D currently no mechanism defined for setting the PAF enable of the -R device, set this bit as Change "..attempted.." to "..completed.." soon as I start programming PME aggregation, data transfer will be started as soon as TC synchronized become true Comment from Ed Turner. Proposed Response Response Status W SuggestedRemedy PROPOSED REJECT. The use of the PAF, if supported by the -R, is always determined by the -O Proposed Response Response Status W

P802.3ah Draft 3.1 Comments

Attempted is correct because if the remote is not present or does not support the feature the attempt will fail and the bit will be marked appropriately

PROPOSED REJECT.

P802.3ah Draft 3.1 C	omments
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C/ 45 SC 45.2.3.18.1 Dawe, Piers	P 115 Agilent	L 6	# 295	Cl 45 SC 45.2.3.19 Law, David	P 115 3Com	L 33	# 116
Are bits 3.61.15 and 3.61.14 cont but R/W and placement in a control SuggestedRemedy If they are control bits, add the co	rol register imply co	ontrol.		Too many eses in 'theses'. SuggestedRemedy See comment.	Comment Status D [Comment provided by E Response Status W	dward Turner]	
These are control bits that tell the 45.2.3.18.1 and 45.2.3.18.2 ment		C (RS, actually)	will behave.	C/ 45 SC 45.2.3.19 Law, David	P 115 3Com	L 38	# 76
C/ 45 SC 45.2.3.19 Schneiderheinze, Burkart Comment Type E Comm register is a PCS register therefor	P 115 Infineon Tech ent Status D re not the PME is o	Ũ	# 504	The word 'may' is a reserve From the IEEE-SA Style m		what is intended	here.
uggestedRemedy replace queried PME with PME c				13. Word usage ====================================	id can		
/ 45 SC 45.2.3.19 aw, David	P 115 3Com	L 31	# 43	<snip> The word may is used to in standard (may equals is pe</snip>		permissible with	in the limits of the
omment Type T Comm No PICS entry for the "shall". [Comment provided by Edward T	ent Status D			[Comment provided by Edv SuggestedRemedy Is this really a permitted op	-	need to be reword	ded.
SuggestedRemedy Add a PICS entry for the shall sta	atement.			Proposed Response R PROPOSED REJECT.	Response Status W		
Proposed Response Respon PROPOSED ACCEPT.	se Status W			The point is really that it do support PME. The 'may' is			

SC 45.2.3.19

CI 45 SC 45.2.3.2.	2. P113	L 26	# 502	C/ 45	SC 45.2.3.26	6 P118	L 42	# 437
chneiderheinze, Burkart	Infineon Tech	nologies		Schneider	heinze, Burkart	Infineon Tech	nnologies	
omment Type T	Comment Status D			Comment	Туре Т	Comment Status D		
be active or at minimu	application with i.e. 4 PMA/P m 1 is sufficient	MD all TCsynch	ronized signals have to	counte	er was increment	ster should currently not be in ted for a fragment. This is onl a coding violation; but PAF lo	y reasonable if e	exactly one fragment
uggestedRemedy add a note, that in case bit to one	e of more TCs at least 1 TC s	ublayer is synch	ronized for setting this	once i	f more fragments	s are missing (possibly for dif he TCs). So it makes no sens	ferent reasons lik	e TC-CRC-error or
Proposed Response	Response Status W			Suggestee	•			
PROPOSED ACCEPT	•					ne coding violation counter re er is not incremented for the s		3.17) is incremented
C/ 45 SC 45.2.3.20 Schneiderheinze, Burkart	P116 Infineon Tech	L 28 nologies	# 505		Response POSED ACCEPT	Response Status W		
comment Type T	Comment Status D			C/ 45	SC 45.2.3.26	6 P118	L 42	# 77
shouldn't MMD reset 't	urn the PAF off'?? If yes, after	r reset this regist	ter should be '0'	Law, Davi	d	3Com		
uggestedRemedy				Comment	Туре Т	Comment Status D		
reset value of '0', consi	ider PAF enable bit			Can´t	find the register	in the cross reference (45.2.3	3.17). Broken refe	erence? or incorrect
roposed Response	Response Status W			registe	er?			
PROPOSED ACCEPT				[Com	ment provided by	edward Turner]		
V 45 SC 45.2.3.21	P116	L 54	# 436	Suggestee	dRemedy			
chneiderheinze, Burkart	Infineon Tech	-		See c	omment.			
omment Type T	Comment Status D	C C		Proposed	Response	Response Status W		
	should currently be present (a	and used, I supp	oose) even if PAF is not	PROF	POSED ACCEPT	IN PRINCIPLE.		
implemented. This is a	contradiction to page 366, lin abled no PAF error detecting	e 31 (there is de	efined that when PAF is	Point	to TC encap erro	or register in MMD #6		
uggestedRemedy				C/ 45	SC 45.2.6	P 112	L 13	# 506
harmonize				Schneider	heinze, Burkart	Infineon Tech	nnologies	
roposed Response	Response Status W			Comment	••	Comment Status D	ad in TC aveabr	anization state
PROPOSED ACCEPT	IN PRINCIPLE.				ines - see 61.3.3	ssing (for i.e. reset which is us .5.1)	sed in TC synchr	onization state
	rough 45.2.3.28 that these re			Suggestee	dRemedy			
unsupported of disable	ed. They retain their previous	values if PAF IS	uisableu.	add T	C control registe	r, with at least the reset bit de	efined	
				Proposed	Response	Response Status W		
				PROF	POSED ACCEPT	IN PRINCIPLE.		
				To be	included as part	of the TC sublayer control re	gister in MMD #6	3

Cl 45 SC 45.2.6.10 Schneiderheinze, Burkart	P126 Infineon Tech	L 22 nologies	# 443	Cl 45 SC 45.2.6.3.1 Law, David	P 123 3Com	L1	# 79
Comment Type E wrong cross reference	Comment Status D			Comment Type T '1.32.13' is incorrect. Ch	Comment Status D ange to '6.17.0'		
SuggestedRemedy fix it Proposed Response PROPOSED ACCEPT	Response Status W			[Comment provided by F SuggestedRemedy See comment. Proposed Response	Edward Turner] Response Status W		
C/ 45 SC 45.2.6.3	P122	L 10	# 117	PROPOSED ACCEPT.			
Law, David Comment Type E While 'please' is polite,	3Com Comment Status D its not IEEE style. [Comment	provided by Edv	vard Turner]	C/ 45 SC 45.2.6.3.1 Schneiderheinze, Burkart Comment Type E	P 123 Infineon Tech Comment Status D	L 1 nologies	# 439
SuggestedRemedy Delete 'please'. Also on page 123, line	54.			wrong cross reference SuggestedRemedy change 1.32.13 to 6.17.			
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
pardon me.				Cl 45 SC 45.2.6.4. Schneiderheinze, Burkart	P 123 Infineon Tech	L7	# 440
C/ 45 SC 45.2.6.3 . ² Law, David	1 P 122 3Com	L 43	# 624	Comment Type T	Comment Status D	-	
Comment Type E Add an "s" to the end c Comment from Ed Turr				10P/2B aggregation dise missing SuggestedRemedy add this sentence	covery status register' is only	v defined for -O-	Ports. This sentence is
SuggestedRemedy				Proposed Response PROPOSED ACCEPT.	Response Status W		
Proposed Response	Response Status W						

PROPOSED ACCEPT.

Page 51 of 146 *Cl* **45** SC **45.2.6.4**.

CI 45 SC 45.2.6.4.1 P123 L 22 #	438 C/ 45 SC 45.2.6.6.1 P 124 L 44 # 81
Schneiderheinze, Burkart Infineon Technologies	Law, David 3Com
Comment Type T Comment Status D Result of 'Link Partner Aggregation' is merged into discovery status register. The seperate functions, justifying an own '10P/2B Link Partner PME aggregate state	us' register.
SuggestedRemedy Create '10P/2B Link Partner PME aggregate status' register. Adapt Table 45-5 accordingly.	[Comment provided by Edward Turner] 9a SuggestedRemedy See comment.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W PROPOSED ACCEPT.
Change name of register to "Aggregation and discovery operation status regist C/ 45 SC 45.2.6.4.1 P123 L 28 #	
Law, David 3Com Comment Type T Comment Status D 'shall read as zero' would be better as 'shall remain set to zero' Also on lir	Comment Type T Comment Status D The word "must" is used here.
[Comment provided by Edward Turner] SuggestedRemedy See comment.	13. Word usage ====================================
Proposed Response Response Status W PROPOSED ACCEPT.	The word shall is used to indicate mandatory requirements strictly to be followed in order to
Cl 45 SC 45.2.6.5 P 123 L 54 # Schneiderheinze, Burkart Infineon Technologies # Comment Type T Comment Status D Not clear whether this register contains after g.994.1 sessions the value of remote_discovery_registers received from the -R device #	 507 507 conform to the standard and from which no deviation is permitted (shall equals is required to). The use of the word must is deprecated and shall not be used when stating mandatory requirements; must is used only to describe unavoidable situations. The use of the word will is deprecated and shall not be used when stating mandatory requirements; will is only used in statements of fact. [Comment provided by Edward Turner]
SuggestedRemedy add a note that these register store the value of remote_discovery_registers re the -R device	
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
	Change to

"This operation makes use of G.994.1 handshaking messages, therefore only valid when the link status is down. . ."

P802.3ah Draft 3.1	Comments
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C/ 45 SC 45.2.6.6.1 Law, David	P 125 3Com	L 2	# 118	C/ 45 SC 45.2.6.9 Law, David	Р 126 3Com	L 3	# 625
Comment Type E Add 's' to end of 'return'.	Comment Status D [Comment provided by Edw	ard Turner]		Comment Type E Change "number 64/64 o	Comment Status D	64 octet"	
SuggestedRemedy See comment.				Comment from Ed Turner. SuggestedRemedy			
Proposed Response PROPOSED ACCEPT.	Response Status W				Response Status W		
Cl 45 SC 45.2.6.7. Schneiderheinze, Burkart	P 125 Infineon Tech	L 33 nologies	# 441	PROPOSED ACCEPT IN	PRINCIPLE.		
Comment Type E wrong register name in t	Comment Status D able	J		Actually, change to "number of the second se	P 126	L7	# 440
SuggestedRemedy change to link partner PI	ME accrectate data			Schneiderheinze, Burkart	Infineon Techr		# 442
Proposed Response PROPOSED ACCEPT.	Response Status W			Comment Type T TC encapsulation error cou each TC_coding_error sigu		nat this register i	s incremented for
C/ 45 SC 45.2.6.8 Law, David	Р 125 3Com	L 43	# 119	SuggestedRemedy add a hint that this register 61.	r is incremented for each T	C_coding_error	signal defind in clause
Comment Type E Better than 'as in 61.2.3	Comment Status D 3' is 'defined in 61.2.3'.			Proposed Response F PROPOSED ACCEPT.	Response Status W		
Also on page 126, line 4 SuggestedRemedy	. [Comment provided by Edu	ward Turner]		C/ 45 SC 45.2.7 Dawe, Piers	P 127 Agilent	L 22	# 296
See comment. Proposed Response	Response Status W			Comment Type E capital	Comment Status D		
PROPOSED ACCEPT.				SuggestedRemedy put 'Buffer' into lower case	- several occurrences.		
				Proposed Response F PROPOSED ACCEPT.	Response Status W		

			•					
Cl 45 Brown, Ber	SC 45.2.7.2. 1	I P 127 Independent	L 52	# 126	C/ 45 SC 45.5.5 Law, David	5.15 P 136 3Com	L 33	# 60
Comment 7	•	Comment Status D			Comment Type T	Comment Status D		
Accord Clause	ling to the secon s and subclause	d paragraph in section 11 of the shall be divided into further	subclauses onl	y when there is to be	Add "or reset" to the	e "feature" column of TC10.		
		se. In other words, clauses an auses if another subclause of				I by Edward Turner]		
Suggested	Remedy				SuggestedRemedy See comment.			
	Ibclause cannot his description p	stand alone. Either create a part of 45.2.7.2.	eer subclause t	for the reserved bits or	Proposed Response PROPOSED ACCE	Response Status W		
Doing a	a quick check the	rough the clause shows there	are lots of plac	es like this.				
45.2.1. 45.2.1.	-				C/ 45 SC 45.5.8 Law, David	5.16 P137 3Com	L13	# 61
45.2.1. 45.2.1. 45.2.6.	28.1 36.1				Comment Type T Add "or reset" to the	Comment Status D e "feature" column of TC18.		
45.2.6. 45.2.6. 45.2.7.	6.1					by Edward Turner]		
45.2.7.					SuggestedRemedy See comment.			
Proposed I PROP	Response OSED ACCEPT	Response Status W IN PRINCIPLE.			Proposed Response PROPOSED ACCE	Response Status W		
Succin	ctly subsume the	e fourth level subclauses into t	he superior sul	oclause.				
CI 45 Schneiderh	SC 45.2.7.3. neinze, Burkart	P 128 Infineon Techn	L 12 ologies	# 444	C/ 45 SC 45.5.8 Law, David	5.16 P137 3Com	L18	# 62
Comment T wrong	Type T description for F	Comment Status D	Ũ		Comment Type T Add "or reset" to the	Comment Status D e "feature" column of TC20.		
Suggested	-				[Comment provided	by Edward Turner]		
	e to 1 = enable, () = disable			SuggestedRemedy			
Proposed F PROP	Response OSED ACCEPT.	Response Status W			See comment. Proposed Response	Response Status W		
C/ 45 Dawe, Pier	SC 45.2.7.3. 1	P 128 Agilent	L 21	# 652	PROPOSED ACCE	PT.		
Comment an PH	Туре Е	Comment Status D						
Suggested a PHY	Remedy							
Proposed I PROP	Response OSED ACCEPT.	Response Status W						

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

Page 54 of 146 C/ 45 SC 45.5.5.16

			F002.3an	Drait 3.1 Comments			
C/ 45 SC 45.5.5.16 Law, David	Р 137 3Com	L 23	# 63	C/ 45 SC 45.5.5.3 Law, David	P 131 3Com	L 8	# 44
Comment Type T Add "or reset" to the "fe	Comment Status D			Comment Type T	Comment Status D rement for this PICS entry.		
[Comment provided by SuggestedRemedy See comment.				[Comment provided by SuggestedRemedy Delete this PICS entry			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT	Response Status W		
C/ 45 SC 45.5.5.17 Dawe, Piers	P 137 Agilent	L 30	# 299	<i>Cl</i> 45 SC 45.5.5.3 Law, David	Р 132 3Com	L 10	# 45
Comment Type E 45.5.5.17 or 45.5.5.16?	Comment Status D			Comment Type T Add "or reset" to MM1	Comment Status D 7 "feature" column.		
SuggestedRemedy 45.5.5.16?				[Comment provided by SuggestedRemedy	/ Edward Turner]		
Proposed Response PROPOSED ACCEPT.	Response Status W			See comment. Proposed Response PROPOSED ACCEPT	Response Status W		
s/b 16				C/ 45 SC 45.5.3	P 132	L13	# 46
Cl 45 SC 45.5.5.17 Dawe, Piers	P 138 Agilent	L 14	# 297	Law, David	3Com		
Comment Type T	Comment Status D ral PICS entries marked as C	TT-M which are	FEC specific To	Comment Type T Add "or reset" to MM1	Comment Status D 8 "feature" column.		
save rework in a future		TT:W which are	FEC-specific. To	[Comment provided by	/ Edward Turner]		
SuggestedRemedy Consider creating a ma FEC:M.	jor option for FEC, status CT	T:M, and chang	e items CT5-11 to	SuggestedRemedy See comment.			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT	Response Status W		

C/ 45 SC 45.5.3	P132	L16	# 47	C/ 45 SC 45.5.3	P 132	L27	# 50
Law, David	3Com	-		Law, David	3Com		
Comment Type T Change "45.2.1.25" to "4	Comment Status D 5.2.1.25.1"			Comment Type T Add "or reset" to MM23	Comment Status D "feature" column.		
[Comment provided by E	dward Turner]			[Comment provided by	Edward Turner]		
SuggestedRemedy See comment.				SuggestedRemedy See comment.			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
C/ 45 SC 45.5.3 Law, David	P 132 3Com	L 22	# 48	Cl 45 SC 45.5.5.3 Law, David	P 132 3Com	L 29	# <u>51</u>
Comment Type T Add "or reset" to MM21 "	Comment Status D			Comment Type T Add "or reset" to MM24	Comment Status D "feature" column.		
[Comment provided by E	dward Turner]			[Comment provided by	Edward Turner]		
SuggestedRemedy See comment.				SuggestedRemedy See comment.			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
C/ 45 SC 45.5.3 Law, David	P 132 3Com	L 25	# 49	C/ 45 SC 45.5.5.3 Law, David	P 132 3Com	L 32	# 52
Comment Type T Add "or reset" to MM22 "	Comment Status D feature" column.			Comment Type T Add "or reset" to MM25	Comment Status D "feature" column.		
[Comment provided by E	dward Turner]			[Comment provided by	Edward Turner]		
SuggestedRemedy See comment.				SuggestedRemedy See comment.			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		

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C/ 45 SC 45.5.5.6 Law, David	P 133 3Com	L 30	# 53	CI 45 SC 45.5.5.6 P 133 L 43 # 55 Law, David 3Com <
the register bits in sectio [Comment provided by E SuggestedRemedy	Edward Turner]		these PICS entries to	Comment Type T Comment Status D There's only one "shall" statement for RM57 and RM58. [Comment provided by Edward Turner] SuggestedRemedy Should item RM58 be deleted ?
Proposed Response PROPOSED ACCEPT.	154, and RM55 be deleted ? Response Status W			Proposed Response Response Status W PROPOSED ACCEPT. Delete it
delete them Cl 45 SC 45.5.5.6 Dawe, Piers Comment Type E Oto SuggestedRemedy 0 to Proposed Response PROPOSED ACCEPT.	P 133 Agilent Comment Status D Response Status W	L 40	# <u>653</u>	Cl 45 SC 45.5.5.6 P133 L43 # 54 Law, David 3Com Comment Type T Comment Status D Add "or initializing" to the "features" column. [Comment provided by Edward Turner] SuggestedRemedy See comment. Proposed Response Response Status W PROPOSED ACCEPT. V
Cl 45 SC 45.5.56 Dawe, Piers Comment Type E Oto SuggestedRemedy 0 to Proposed Response PROPOSED ACCEPT.	P 133 Agilent Comment Status D Response Status W	L 40	# <u>298</u>	Cl 45 SC 45.5.5.6 P 133 L 50 # 57 Law, David 3Com Comment Type T Comment Status D There's no "shall" statement for RM59. [Comment provided by Edward Turner] SuggestedRemedy Should item RM59 be deleted ? Proposed Response Response Status W PROPOSED ACCEPT. Delete it

Cl 45 SC 45.5.5.6 P134 L3	# 58	C/ 45 SC 45-106 P88 L 18 # 110
Law, David 3Com		Law, David 3Com
Comment Type T Comment Status D		Comment Type E Comment Status D
RM61 and RM62 duplicate the same conditions.		For bit 1.31.4, '0' behaviour is placed on the line above '1' behaviour. The convention for Clause 45 is for the '1' behaviour to be described on the line above '0' behaviour.
[Comment provided by Edward Turner]		[Comment provided by Edward Turner]
SuggestedRemedy		SuggestedRemedy
Should item RM62 be deleted ?		Swap the two lines over.
Proposed Response Response Status W PROPOSED ACCEPT.		Also for bits: 1.31.3, 1.32.15, 1.32.13, 1.33.14, 1.33.12, 1.50.8, 1.59.15, 1.59.14, 1.99.15, 1.99.14, 1.99.12, 1.60.12, 1.60.11, 1.61.0, 6.17.1, 1.17.0 and any others that I missed.
delete it		Proposed Response Response Status W
Cl 45 SC 45.5.6 P135 L 29	# 59	PROPOSED ACCEPT.
Law, David 3Com		C/ 45 SC 45-10y P103 L14 # 95
Comment Type T Comment Status D		Law, David 3Com
No "shall" statements for RM81 or RM82.		Comment Type E Comment Status D
[Comment provided by Edward Turner]		Add "RO" definition to note.
SuggestedRemedy		[Commont provided by Edward Turner]
Should items RM81 and RM82 be deleted ?		[Comment provided by Edward Turner]
Proposed Response Response Status W		SuggestedRemedy See comment.
PROPOSED ACCEPT.		Proposed Response Response Status W
delete them		PROPOSED ACCEPT.
CI 45 SC 45.5.5.8 P133 L27	# 56	C/ 45 SC 45-2 P83 L 35 # 67
Law, David 3Com		Law, David 3Com
Comment Type T Comment Status D		Comment Type T Comment Status D
Can't find a "shall" statement for RM52.		It may be useful to indicate in this table which registers are for the '-O' PHY only. If so, add
[Comment provided by Edward Turner]		'('-O' PHY only)' to 1.32, 1.33, 1.34/35, 1.38, 1.40, 1.42, 1.48, 1.49, 1.57, 1.58, 1.59-63,
SuggestedRemedy		1.64, 1.90, 1.92, 1.94, 1.96, 1.98, 1.100
Should item RM52 be deleted ?		And (I think) 1.50, 1.51/52, 1.53, 1.54/55, 1.56, 1.65/67, 1.68, 1.69
Proposed Response Response Status W		[Comment provided by Edward Turner]
PROPOSED ACCEPT.		SuggestedRemedy
Delete it		See comment.
Boldon		Proposed Response Response Status W
		PROPOSED ACCEPT.

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C/ 45 SC 45-3 P85 L 22 # 68	C/ 45 SC Table 45-10ab P106 L 40 # 97
Law, David 3Com	Law, David 3Com
Comment Type T Comment Status D	Comment Type E Comment Status D
10PASS-TS/2BASE-TL has been added to this table.	Add "NR" definition to note.
[Comment provided by Edward Turner]	[Comment provided by Edward Turner]
SuggestedRemedy	SuggestedRemedy
Need to update the associated subsection text for bits 1.0.5:2 to include a description of the new setting.	See comment.
	Proposed Response Response Status W
Proposed Response Response Status W PROPOSED ACCEPT.	PROPOSED ACCEPT IN PRINCIPLE.
	See #500
Cl 45 SC Table 45-102 P 104 L 22 # 75 Law, David 3Com 3Com	C/ 45 SC Table 45-10af P109 L19 # 98
	Law, David 3Com
Comment Type T Comment Status D	Comment Type E Comment Status D
The notation ':x" is not used in Clause 45. Also line 42 and page 105, lines 13 and 33.	Add "R/W" definition to note.
[Comment provided by Edward Turner]	
SuggestedRemedy	[Comment provided by Edward Turner]
Delete :x' or replace with '[6:2]'	SuggestedRemedy
Proposed Response Response Status W	See comment.
PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W
	PROPOSED ACCEPT.
Delete x:	
Make similar changes to all tables that use this or similar notation.	C/ 45 SC Table 45-10af P109 L4 # 17
	Law, David 3Com
C/ 45 SC Table 45-10a P78 L 21 # 91	Comment Type T Comment Status D
Law, David 3Com	There are no subsections to describe the behaviour of these bits.
Comment Type E Comment Status D	[Comment provided by Edward Turner]
Don't need "RO" or "SC" definitions in note.	SuggestedRemedy
[Comment provided by Edward Turner]	Add subsections and descriptive text.
SuggestedRemedy	Proposed Response Response Status W
See comment.	PROPOSED REJECT.
Proposed Response Response Status W	The table and 45.0.4.54 places to provide autilities dependence of the bit bab start
PROPOSED ACCEPT.	The table and 45.2.1.51 already provide sufficient description of the bit behavior.

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C/ 45 SC Tal	ole 45-10b	P 88	L15	# 64	C/ 45 SC Table 45-10d P90 L5 # 85
.aw, David		3Com			Law, David 3Com
<i>Comment Type</i> T The notation ":="	Comments borrowed from	<i>nt Status</i> D "C" and I don't th	ink is usual in 802	2.3	Comment Type E Comment Status D The "O" of "operation" should be capitalized. As should the "R" of "reserved" and the "V" of
Replace with "=" Also scrub the re uggestedRemedy See comment. troposed Response PROPOSED AC ROPOSED AC	or the text "is equa st of the chapter fo <i>Response</i> CEPT. Die 45-10c	al to".		2.3 10t, 45-10v, 45-10z). # <mark>82</mark>	The "O" of "operation" should be capitalized. As should the "R" of "reserved" and the "V" of "value". Other tables are also missing capitalization of the first letters in line entries. Scrub the chapter to capitalize the first letter of each line of text in the 'boxes' of the tables. [Comment provided by Edward Turner] SuggestedRemedy See comment. Proposed Response Response Status W PROPOSED ACCEPT. C/ 45 SC Table 45-10g Page L15 Law, David 3Com
[Comment provid uggestedRemedy [1] Delete the thi [2] Rename the d	quite confusing ar led by Edward Tur d column ('-R'). olumn called 'link olumn called 'loca	nd it took some ti mer] partner register -	O' to 'Register ac	nat it was trying to say. cessed in -O PHY'. ter mirrored from / to -	Comment Type E Comment Status D Add "R/W" definition to note. [Comment provided by Edward Turner] SuggestedRemedy See comment. Proposed Response Response Status W PROPOSED ACCEPT.
aw, David Comment Type E	ble 45-10d	P 90 3Com nt Status D	L 13	# 92	Cl 45 SC Table 45-10i P 93 L 20 # 94 Law, David 3Com Comment Type E Comment Status D Add "RO" definition to note. [Comment provided by Edward Turner]
[Comment provid SuggestedRemedy See comment. Proposed Response PROPOSED AC		rner] e Status W			SuggestedRemedy See comment. Proposed Response Response Status W PROPOSED ACCEPT.

<i>Cl</i> 45 SC Table 45-10t Law, David	Р 98 3Com	<i>L</i> 1	# 10	C/ 45 SC Table 45-10t P 98 L 29 # 102 Law, David 3Com
Comment Type T Comm There are no subsections to desc	ent Status D cribe the behaviou	r of these bits.		Comment Type T Comment Status D Change "1.63.9" to "1.63.15:9".
[Comment provided by Edward T	urner]			[Comment provided by Edward Turner]
SuggestedRemedy				SuggestedRemedy
Add subsections and descriptive	text.			See comment.
Proposed Response Respon PROPOSED REJECT.	se Status W			Proposed Response Response Status W PROPOSED ACCEPT.
The description in the tables and	45.2.1.34 is suffic	ient		C/ 45 SC Table 45-10u P 99 L 5 # 11
C/ 45 SC Table 45-10t	P 98	L 14	# 103	Law, David 3Com
.aw, David	3Com			Comment Type T Comment Status D There are no subsections to describe the behaviour of these bits.
Comment Type E Comm Delete ":" after "1.59.4:0".	ent Status D			
Delete : alter 1.33.4.0.				[Comment provided by Edward Turner]
[Comment provided by Edward T	urner]			SuggestedRemedy Add subsections and descriptive text.
SuggestedRemedy				·
See comment.				Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
, , ,	se Status W			
PROPOSED ACCEPT.				Elaborate in 45.2.1.35.
C/ 45 SC Table 45-10t	P 98	L 25	# 112	C/ 45 SC Table 45-10v P100 L 22 # 7
aw, David	3Com			Law, David 3Com
<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ent Status D			Comment Type T Comment Status D
Change "1.62.9" to "1.62.15:9". [0	Comment provided	d by Edward Turn	er]	I don't understand why the SNR margin is split over 2 registers in this way. Surely it would be better to have all the SNR margin bits in one register? (i.e. bits 15:7).
SuggestedRemedy				
See comment.				[Comment provided by Edward Turner]
	se Status W			SuggestedRemedy
PROPOSED ACCEPT.				See comment.
				Proposed Response Response Status W
				PROPOSED ACCEPT IN PRINCIPLE.
				Move SNR margin to 6.67.9:0

			P802.3ah	Draft 3.1 Com	ments			
<i>Cl</i> 45 <i>SC</i> Table 45-10w Law, David	P 101 3Com	L 10	# 13	<i>Cl</i> 45 Law, David	SC Table 45-10x	Р 102 3Com	L 14	# 66
Comment Type T Co There are no subsections to o [Comment provided by Edwa		of these bits.			Type T Com tement " the power swi just failed? Wouldn't that		seems very spe	cific. What if the powe
SuggestedRemedy Add subsections and descrip	tive text			Suggested	ent provided by Edward Remedy e to " power has been n		end"	
Proposed Response Res PROPOSED ACCEPT.	sponse Status W			Proposed R	Response Response Response	onse Status W		
C/ 45 SC Table 45-10w Law, David	P 101 3Com	L 12	# 104	Change				
Comment Type E Co Change "-" to ":" in "1.68.15-9	omment Status D)".			"Link pa operatio	artner PMA/PMD is repo on"	rting that it no longe	r has power supp	ly input for proper
[Comment provided by Edwa SuggestedRemedy See comment. Proposed Response Res	rd Turner] sponse Status W			C/ 45 Law, David <i>Comment T</i> There a	SC Table 45-10x ype T Comuter of the subsections to design of the subsect	P 102 3Com <i>ment Status</i> D scribe the behaviour	L 3	# 14
PROPOSED ACCEPT.				[Comm] SuggestedF	ent provided by Edward	Turner]		
Cl 45 SC Table 45-10w Law, David Comment Type E Co Incomplete sentence "turned	P101 3Com omment Status D d off end".	L 21	# 88	Add sul Proposed R	bsections and descriptive	e text. onse Status W		
[Comment provided by Edwa SuggestedRemedy	rd Turner]			<i>Cl</i> 45 Law, David	SC Table 45-10x	P 102 3Com	L 5	# 105
Complete the sentence.	sponse Status W			Comment 7 Change	Type E Common e "-" to ":" in "1.69.15-9".	ment Status D		
PROPOSED ACCEPT IN PR	•				ent provided by Edward	Turner]		
Sentence should read:				SuggestedF See co				
"PMA/PMD is reporting that it	t no longer has power s	supply input for pro	oper operation"	Proposed R	Response Respo	onse Status W		

PROPOSED ACCEPT.

			P002.3an D	Draft 3.1 Comments				
C/ 45 SC Table 45-10y aw, David	P 103 3Com	L 3	# 15	Cl 45 SC Table 45-10z Law, David	P 104 3Com	L 5	# 16	
	<i>nt Status</i> D be the behaviour			,	nent Status D	of these bits.		
PROPOSED ACCEPT IN PRINCIP	ext. e Status W PLE.	roforman in the b	it descriptions	PROPOSED REJECT. The behavior of these which is a	text. nse Status W Iready described at a	a high level in 4	5.2.1.40. It is not	
These are actually g.SHDSL annex Cl 45 SC Table 45-10z aw, David Scomment Type Comment Type E Comment	P 104 3Com nt Status D	L 17	# 106	clear what further description is r <i>Cl</i> 45 SC Table 45-10z Law, David <i>Comment Type</i> E <i>Comm</i>	P105 3Com nent Status D	L 29	# 109	
Change "1.82.15:13" to "1.82.15:14 [Comment provided by Edward Tur SuggestedRemedy See comment. Proposed Response Respons PROPOSED ACCEPT.				Change "1.86.15:13" to "1.86.15: [Comment provided by Edward T SuggestedRemedy See comment. Proposed Response Respon PROPOSED ACCEPT.				
Change "1.84.15:13" to "1.84.15:14 [Comment provided by Edward Tur SuggestedRemedy See comment.		L 37	# <u>107</u>	Add "RO" definition to note. [Comment provided by Edward T SuggestedRemedy See comment.	P 105 3Com nent Status D "urner]	L 40	# <u>96</u>	

	1 002.001		
Cl 45 SC Table 45-10z P 105 L 8 Law, David 3Com	# 108	C/ 45 SC Table 45-42a P 114 L 21 Law, David 3Com	# 99
Comment Type E Comment Status D Change "1.86.15:13" to "1.86.15:14".		Comment Type E Comment Status D Remove "R/W" definition from note.	
[Comment provided by Edward Turner]		[Comment provided by Edward Turner]	
SuggestedRemedy See comment.		SuggestedRemedy See comment.	
Proposed Response Response Status W PROPOSED ACCEPT.		Proposed Response Response Status W PROPOSED ACCEPT.	
Cl 45 SC Table 45-3 P 85 L 32 Law, David 3Com	# 90	Cl 45 SC Table 45-42b P 114 L 54 Law, David 3Com	# <u>100</u>
Comment Type E Comment Status D Don't need "RO" in note. Add "R/W" and "SC" definitions to note.		Comment Type E Comment Status D Change "R/O" to "RO" in note.	
[Comment provided by Edward Turner]		[Comment provided by Edward Turner]	
SuggestedRemedy See comment.		SuggestedRemedy See comment.	
Proposed Response Response Status W PROPOSED ACCEPT.		Proposed Response Response Status W PROPOSED ACCEPT.	
Cl 45 SC Table 45-32 P 113 L 40 Law, David 3Com	# 18	C/ 45 SC Table 45-5 P 86 L 19 Law, David 3Com	# 69
Comment Type T Comment Status D An extra bit (3.4.1) has been added.		Comment Type T Comment Status D Need to add a subsection with text to describe the behaviour of this b	it.
[Comment provided by Edward Turner]		[Comment provided by Edward Turner]	
SuggestedRemedy Need to add the bit definition text in as a subsection as well just after	r the table.	SuggestedRemedy See comment.	
Proposed Response Response Status W PROPOSED ACCEPT.		Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	
		Add line for both bits, as in 802.3ae	

C/ 45 SC Table 45-5 P86 L7 # 89 C/ 45 SC Table 45-59c P123 L19 # 101 Law. David 3Com Law. David 3Com Comment Status D Comment Type T Comment Status D Comment Type E Add "R/W" definition to note. Change "1.4.15:13" to "1.4.15:3". [Comment provided by Edward Turner] [Comment provided by Edward Turner] SuggestedRemedy SuggestedRemedy See comment. See comment. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 45 P112 L6 # 20 C/ 45 P126 SC Table 45-58 SC Table 45-59i L 26 # 19 Law. David 3Com Law. David 3Com Comment Type TR Comment Status D Comment Type т Comment Status D There are no subsections to describe the behaviour of these bits. It appears two bits have be allocated the same address, 3.72. Change the second occurrence of 3.72 to be 3.73 and change the Reserved bits to be 3.74 through 3.32 767. [Comment provided by Edward Turner] [Comment provided by Edward Turner] SuggestedRemedy SuggestedRemedy Add subsections and descriptive text. Change 3.72 to 3.73, and change 3.73 to 3.74 on the next line. Proposed Response Response Status W Proposed Response Response Status W PROPOSED REJECT. PROPOSED ACCEPT. C/ 45 P121 L 20 The table and intro text already provide sufficient description. SC Table 45-59a # 78 Law, David 3Com C/ 45 P96 SC Tbl. 45-10 L 31 # 616 Comment Type т Comment Status D Law. David 3Com It may be useful to indicate which registers are the '-O' PHY only in this table. If so, add '('-Comment Type E Comment Status D O' PHY only)' to 6.16, 6.17?, 6.18-20, 6.21, 6.22-23. Too many "=" symbols is confusing. Change "..length = 144" to "..length of 144" Also on the next line and in table 45-10 [Comment provided by Edward Turner] SugaestedRemedv Comment from Ed Turner. See comment. SuggestedRemedy Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT.

C/ 45 SC Tbl. 45-10a	P87	L 12	# 605		SC Tbl. 45-1		L	# 618
aw, David	3Com			Law, David		3Com		
	Comment Status D			Comment Typ		Comment Status D		
The word "shall" appears tw this case they are unnecces Replace them in the table w	sary since section 45.2.			should be		from the tables betweer between each bit in all th		intout dodgy? There
Comment from Ed Turner.								
SuggestedRemedy				SuggestedRei	meay			
Proposed Response R PROPOSED ACCEPT IN P	esponse Status W RINCIPLE.				ED REJECT.	Response Status W		
Remove shall.				dodgy pri				
operate -> operation				C/ 45 S Law, David	SC Tbl. 45-1	0z P 104 3Com	L 11	# 623
C/ 45 SC Tbl. 45-10a aw, David	Р 87 3Com	L 5	# 612	<i>Comment Typ</i> Add a spa	e E ice between "	Comment Status D =" and "64n"		
Comment Type E C Swap over the "0" and "1" li	Comment Status D nes so that the "1" line is	above the "0" lin	е.	Comment SuggestedRei	from Ed Turr	ner.		
Comment from Ed Turner.					other places i	n this table.		
SuggestedRemedy				Proposed Res		Response Status W		
Proposed Response Re PROPOSED ACCEPT.	esponse Status W			C/ 45 S Law, David	SC Tbl. 45-2	Р 84 3Com	L5	# 615
C/ 45 SC Tbl. 45-10o .aw, David	Р 96 3Com	L10	# 610	Comment Typ Section 45		Comment Status D this the "10P/2B link par	tner electrical lengt	h register"
Comment Type T C Change "sets the required	Comment Status D " to "sets the minimum	n required"		Comment SuggestedRei	from Ed Turr medy	ner.		
Comment from Ed Turner.				Correct it	-			
SuggestedRemedy				Proposed Res PROPOS	ponse ED ACCEPT.	Response Status W		
Proposed Response R	esponse Status W							

PROPOSED ACCEPT.

SC Tbl. 45-2

			1 00210411 0	
C/ 45 SC Tbl. 4	5-59a P 121	L14	# 604	C/ 56 SC 56.1
Law, David	3Com			Booth, Brad
	Comment Status D) does not have the ´standard´ co reset and speed ability / setting.			Comment Type TR Figures 56-1 and 56- model and the OSI re
	other MMDs that allow an STA to added to the TC MMD.	poll each MM	D to see if it's present.	SuggestedRemedy 2BASE-TL and 10PA
Comment from Ed 1	Furner.			In 56-2, remove one s
SuggestedRemedy Proposed Response	Response Status W			information belongs in "MEDIUM". The MEI ends. Port types sho
PROPOSED ACCE				Proposed Response
				ACCEPT IN PRINCIP
C/ 56 SC 56 Dawe, Piers	P 188 Agilent	L15	# 658	For the Cu stacks, we
Comment Type E Space after period a	Comment Status D at end of line?			The commenter is con However, since this is topology in the introdu
SuggestedRemedy Proposed Response	Response Status W			The jagged edges are shown stack. The jag additional ONUs (and
PROPOSED ACCE Will remove the extr	-			Indication that the ON indicated by way of a
				The stub on the left w
				C/ 56 SC 56.1 Dawe, Piers
				Comment Type E single mode
				SuggestedRemedy s/b single-mode
				Proposed Response

C/ 56	SC 56.1	P 158	L 17	#	99346	
Booth, Brad		Intel				

D3.0 #760

Comment Type TR Comment Status A

Figures 56-1 and 56-2 should be showing the relationship of the EFM layers to the LAN model and the OSI reference model.

2BASE-TL and 10PASS-TS can be merged in 56-1.

In 56-2, remove one stack and remove brackets showing OLT and ONU(s). That information belongs in the P2MP clause. The name of the medium should just be "MEDIUM". The MEDIUM should be shown as a shared medium, jagged edge on both ends. Port types should be listed under the MEDIUM.

Proposed Response	Response Status	U	
ACCEPT IN PRINCIPLE			

For the Cu stacks, we will merge the two into one stack.

The commenter is correct that the P2MP diagram appears in subsequent clauses. However,since this is a new means of operating on a shared medium it warrants its own topology in the introduction (as it is different from the point-to-point).

The jagged edges are correct as is since there are no additional OLTs to the left of the shown stack. The jagged edge to the right indicates that the medium could go on with additional ONUs (and OLT is mentioned as singular in contrast to ONUs).

Indication that the ONUs communicate with the OLT but not with each other will be indicated by way of arrows or curvature.

The stub on the left will be removed. The connecterization on the GMII will be removed.

<i>CI</i> 56 Dawe, Pie	SC 56.1	P 188 Agilent		L13	# 657
Comment single	t <i>Type</i> E e mode	Comment Status	D		
S <i>uggeste</i> s/b si	<i>dRemedy</i> ngle-mode				
	Response POSED ACCEPT.	Response Status	W		

CI 56 SC 56.1	P 188	L 13	# 656	C/ 56	SC 56.1	P 188	L 51	# 305
Dawe, Piers	Agilent			Dawe, Pie	ers	Agilent		
Comment Type E kms SuggestedRemedy	Comment Status D				•••	Comment Status D, at least not in D3.1: 'MA	C is configured in I	half duplex mode'. See
,	between 10 and km; delete	the s		Suggested Chano	<i>dRemedy</i> ge 'is' to 'may be'.			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed	Response POSED REJECT.	Response Status W		
C/ 56 SC 56.1 Dawe, Piers	P 188 Agilent	L 28	# 306		e 56 does not des dure can be found	cribe the detailed proced I in C61	ure. As the comme	enter points out the
Comment Type T	Comment Status D			C/ 56	SC 56.1.1	P189	L 37	# 309
	type of MAC OAM sublayer a n fact two distinct things: clar			Dawe, Pie		Agilent		
figure 22-1 or 35-1.	ji i i			Comment	Type TR	Comment Status D		
the abbreviations list at	Ū.	= RECONCILIA	TION SUBLAYER' to	possit	bly interoperability	s now. To change the rule issues, damaging to both use it is not likely that the	Ethernet access	and mainstream
the abbreviations list at Proposed Response PROPOSED REJECT.				possit Etherr EFM \ Etherr 1000E It sho ports	bly interoperability net markets, beca would be the lose net). BASE-LX10 and 1 uld be unnecessa (with probably the	issues, damaging to both use it is not likely that the r, being cut off from the ec 000BASE-LX are interope ry for a DTE in a CO to ne SAME GBICs in them) d	Ethernet access real world will obe conomies of scale erable, and work o eed different PCS	and mainstream ey D3.1 rules (if it does, of mainstream n MMF as well as SMF. rules for different GBIC
the abbreviations list at Proposed Response PROPOSED REJECT. We discussed this at the out	bottom of figure. <i>Response Status</i> W e last session. The RS may b <i>P</i> 188	be different but n		possit Ethern EFM v Ethern 1000E It shou ports core n	bly interoperability net markets, beca would be the lose net). BASE-LX10 and 1 uld be unnecessa (with probably the network or the acc	issues, damaging to both use it is not likely that the r, being cut off from the ec 000BASE-LX are interope ry for a DTE in a CO to ne SAME GBICs in them) d	Ethernet access real world will obe conomies of scale erable, and work o eed different PCS	and mainstream ey D3.1 rules (if it does, of mainstream n MMF as well as SMF. rules for different GBIC
the abbreviations list at Proposed Response PROPOSED REJECT. We discussed this at the out C/ 56 SC 56.1 Beck, Michael	bottom of figure. <i>Response Status</i> W e last session. The RS may b	be different but n	eed not be seperated	possit Etherr EFM v Etherr 1000E It shot ports core r Suggested	bly interoperability net markets, beca would be the lose net). BASE-LX10 and 1 uld be unnecessa (with probably the network or the acc <i>dRemedy</i> ge '66.1 and 66.2,	issues, damaging to both use it is not likely that the r, being cut off from the ec 000BASE-LX are interope ry for a DTE in a CO to ne SAME GBICs in them) d	The Ethernet access real world will obe conomies of scale erable, and work o eed different PCS of epending whether	and mainstream ey D3.1 rules (if it does, of mainstream n MMF as well as SMF. rules for different GBIC they connect into the
the abbreviations list at Proposed Response PROPOSED REJECT. We discussed this at the out C/ 56 SC 56.1 Beck, Michael	bottom of figure. <i>Response Status</i> W e last session. The RS may the <i>P</i> 188 Alcatel Bell ny <i>Comment Status</i> D	be different but n	eed not be seperated	possit Ethern EFM v Ethern 1000E It shou ports core n Suggestee Chang comm	bly interoperability net markets, beca would be the lose net). BASE-LX10 and 1 uld be unnecessa (with probably the network or the acc <i>dRemedy</i> ge '66.1 and 66.2,	issues, damaging to both use it is not likely that the r, being cut off from the ec 000BASE-LX are interope ry for a DTE in a CO to ne SAME GBICs in them) d ess network!	The Ethernet access real world will obe conomies of scale erable, and work o eed different PCS of epending whether	and mainstream ey D3.1 rules (if it does, of mainstream n MMF as well as SMF. rules for different GBIC they connect into the
the abbreviations list at Proposed Response PROPOSED REJECT. We discussed this at the out 56 SC 56.1 Somment Type TR In the copper stack, the SuggestedRemedy	bottom of figure. <i>Response Status</i> W e last session. The RS may b <i>P</i> 188 Alcatel Bell nv <i>Comment Status</i> D TC sublayer is missing.	be different but n	eed not be seperated	possit Ethern EFM v Ethern 1000E It shou ports core n Suggestee Chang comm	bly interoperability net markets, beca would be the lose net). BASE-LX10 and 1 uld be unnecessa (with probably the network or the acc <i>dRemedy</i> ge '66.1 and 66.2, nents.	r issues, damaging to both use it is not likely that the r, being cut off from the ed 000BASE-LX are interopery for a DTE in a CO to ne SAME GBICs in them) d ess network! respectively.'24, 36, 37 6 <i>Response Status</i> W	The Ethernet access real world will obe conomies of scale erable, and work o eed different PCS of epending whether	and mainstream ey D3.1 rules (if it does, of mainstream n MMF as well as SMF. rules for different GBIC they connect into the
the abbreviations list at Proposed Response PROPOSED REJECT. We discussed this at the out 56 SC 56.1 leck, Michael Comment Type TR In the copper stack, the SuggestedRemedy In Figure 56-1, add a TC	bottom of figure. <i>Response Status</i> W e last session. The RS may the <i>P</i> 188 Alcatel Bell ny <i>Comment Status</i> D	be different but n	eed not be seperated	possit Etherr EFM v Etherr 1000E It shou ports core r Suggestee Chang comm Proposed PROF	bly interoperability net markets, beca would be the lose net). BASE-LX10 and 1 uld be unnecessa (with probably the network or the acc <i>dRemedy</i> ge '66.1 and 66.2, nents.	issues, damaging to both use it is not likely that the polynomial of the end out off from the end out of from the	The Ethernet access real world will obe conomies of scale erable, and work o eed different PCS of epending whether	and mainstream ey D3.1 rules (if it does, of mainstream n MMF as well as SMF. rules for different GBIC they connect into the
the abbreviations list at troposed Response PROPOSED REJECT. We discussed this at the out 56 SC 56.1 eck, Michael comment Type TR In the copper stack, the tuggestedRemedy In Figure 56-1, add a TC In Table 56-2, replace c	bottom of figure. <i>Response Status</i> W e last session. The RS may b <i>P</i> 188 Alcatel Bell nv <i>Comment Status</i> D TC sublayer is missing. C sublayer between "Cu PCS	be different but n	eed not be seperated	possit Etherr EFM v Etherr 1000E It shou ports core r Suggestee Chang comm Proposed PROF	bly interoperability net markets, beca would be the lose net). BASE-LX10 and 1 uld be unnecessa (with probably the network or the acc dRemedy ge '66.1 and 66.2, nents. <i>Response</i> POSED ACCEPT e discussed on M SC 56.1.1	issues, damaging to both use it is not likely that the polynomial of the end out off from the end out of from the	The Ethernet access real world will obe conomies of scale erable, and work o eed different PCS of epending whether	and mainstream ey D3.1 rules (if it does, of mainstream n MMF as well as SMF. rules for different GBIC they connect into the
the abbreviations list at Proposed Response PROPOSED REJECT. We discussed this at the out Cl 56 SC 56.1 Beck, Michael Comment Type TR In the copper stack, the SuggestedRemedy In Figure 56-1, add a TC In Table 56-2, replace c Proposed Response	bottom of figure. <i>Response Status</i> W e last session. The RS may b <i>P</i> 188 Alcatel Bell ny <i>Comment Status</i> D TC sublayer is missing. C sublayer between "Cu PCS solumn "Cu PCS" with "Cu PCS	be different but n	eed not be seperated	possit Ethern EFM v Ethern 1000E It shou ports core r Suggested Chang comm Proposed PROF Will be C/ 56 Dawe, Pie Comment	bly interoperability net markets, beca would be the lose net). BASE-LX10 and 1 uld be unnecessa (with probably the network or the acc dRemedy ge '66.1 and 66.2, nents. POSED ACCEPT e discussed on M SC 56.1.1 ers type E	r issues, damaging to both use it is not likely that the r, being cut off from the ed 000BASE-LX are interoper ry for a DTE in a CO to ne SAME GBICs in them) di ess network! respectively.'24, 36, 37 6 <i>Response Status</i> W IN PRINCIPLE. onday P189	L Ethernet access real world will obe conomies of scale erable, and work o eed different PCS i epending whether 6.1 and/or 66.2'. S	and mainstream ey D3.1 rules (if it does, of mainstream n MMF as well as SMF. rules for different GBIC they connect into the See other related
the abbreviations list at Proposed Response PROPOSED REJECT. We discussed this at the out CI 56 SC 56.1 Beck, Michael Comment Type TR In the copper stack, the SuggestedRemedy In Figure 56-1, add a TC In Table 56-2, replace c Proposed Response	bottom of figure. <i>Response Status</i> W e last session. The RS may b <i>P</i> 188 Alcatel Bell ny <i>Comment Status</i> D TC sublayer is missing. C sublayer between "Cu PCS solumn "Cu PCS" with "Cu PCS	be different but n	eed not be seperated	possit Etherr EFM v Etherr 1000E It shou ports core r Suggestee Chang comm Proposed PROF Will be C/ 56 Dawe, Pie Comment Missir Suggestee	bly interoperability net markets, beca would be the lose net). BASE-LX10 and 1 uld be unnecessa (with probably the network or the acc dRemedy ge '66.1 and 66.2, nents. Response POSED ACCEPT e discussed on M SC 56.1.1 ers Type E ng spaces, broker dRemedy	r issues, damaging to both use it is not likely that the r, being cut off from the ea 000BASE-LX are interopery for a DTE in a CO to ne SAME GBICs in them) dr sess network! respectively.'24, 36, 37 6 <i>Response Status</i> W IN PRINCIPLE. onday <i>P</i> 189 Agilent <i>Comment Status</i> D	L Ethernet access real world will obe conomies of scale erable, and work o eed different PCS i epending whether 6.1 and/or 66.2'. S	and mainstream ey D3.1 rules (if it does, of mainstream n MMF as well as SMF. rules for different GBIC they connect into the See other related

SC 56.1.1

P802.3ah Draft 3.1	Comments
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C/ 56 SC 56.1.2.2 Dawe, Piers	P 190 Agilent	L 17	# 358	C/ 56 SC 56.1.3 Dawe, Piers	P 190 Agilent	L 36	# 311
	Comment Status D need to briefly refer to chan	ges to 10G RS.		Comment Type E This sentence read are like adjectives.	Comment Status D s oddly, I think because port des	scriptors such as	1000BASE-PX10-D
SuggestedRemedy Add sentence: 'An optior by OAM frames.'	nal modification of the 10 Gb	/s RS allows for	remote fault signaling	SuggestedRemedy Easy fix - delete 'the	e' before each '1000BASE-' (fou	r times).	
Proposed Response PROPOSED REJECT.	Response Status W			Proposed Response PROPOSED ACCE	Response Status W PT.		
This is mentioned in the	relevant section 56.1.5			C/ 56 SC 56.1.3		L 50	# 313
C/ 56 SC 56.1.2.2	P 190	L17	# 308	Dawe, Piers	Agilent		
Dawe, Piers	Agilent			Comment Type E	Comment Status D		Refer to C
Comment Type TR	Comment Status D		Refer to copper		oh we have an informative sente s something in common with oth		at 2BASE-TL isn't just a
1 000	the draft is there a statemer ect to. Even if the editors be			SuggestedRemedy			
that doesn't mean it's the	e case: one would not obviou	usly expect low-s	peed PHYs to use the	If it's not too politica	l, insert something similar betwe	een 'This PMD' a	nd 'uses passband':
10G MDIO clause 45, bu PHYs. Further, if it's clau this draft.		e new PHY-spec	peed PHYs to use the ific RSs for these	perhaps like: This National Standard T uses passband	I, insert something similar betwee PMD is derived from the VDSL 1.424 and at time of writing, un rack to write/vet what they want	transceiver speci der discussion as	ified in American
10G MDIO clause 45, bu PHYs. Further, if it's clau this draft. SuggestedRemedy Whatever the situation is	e case: one would not obviou It they do. Or, there could b use 22, can I run it at 10 Mb, s, just add a sentence to say FM electrical {links connection	e new PHY-spec /s for 10PASS-T	peed PHYs to use the ific RSs for these S? I can't tell from er track to correct and	perhaps like: This National Standard T uses passband	PMD is derived from the VDSL 1.424 and at time of writing, un rack to write/vet what they want <i>Response Status</i> W	transceiver speci der discussion as	ified in American
10G MDIO clause 45, bu PHYs. Further, if it's clau this draft. SuggestedRemedy Whatever the situation is better my suggestion: 'El	e case: one would not obviou It they do. Or, there could b use 22, can I run it at 10 Mb, s, just add a sentence to say FM electrical {links connection	e new PHY-spec /s for 10PASS-T	peed PHYs to use the ific RSs for these S? I can't tell from er track to correct and	perhaps like: This National Standard T uses passband But get the copper f Proposed Response PROPOSED ACCE	PMD is derived from the VDSL 1.424 and at time of writing, un rack to write/vet what they want <i>Response Status</i> W	transceiver speci der discussion as to say.	ified in American
10G MDIO clause 45, bu PHYs. Further, if it's clau this draft. SuggestedRemedy Whatever the situation is better my suggestion: 'El clause 22 operating at {1	e case: one would not obviou at they do. Or, there could b use 22, can I run it at 10 Mb/ s, just add a sentence to say FM electrical {links connection 10 100} Mb/s.' Response Status W	e new PHY-spec /s for 10PASS-T	peed PHYs to use the ific RSs for these S? I can't tell from er track to correct and	perhaps like: This National Standard T uses passband But get the copper f Proposed Response PROPOSED ACCE	 PMD is derived from the VDSL 1.424 and at time of writing, un rack to write/vet what they want <i>Response Status</i> W PT IN PRINCIPLE. rack per the request of the comr 	transceiver speci der discussion as to say.	ified in American s G.xxx in ITU-T. It
10G MDIO clause 45, bu PHYs. Further, if it's clau this draft. SuggestedRemedy Whatever the situation is better my suggestion: 'El clause 22 operating at {1 Proposed Response PROPOSED ACCEPT IN	e case: one would not obviou at they do. Or, there could b use 22, can I run it at 10 Mb, s, just add a sentence to say FM electrical {links connection 10 100} Mb/s.' <i>Response Status</i> W N PRINCIPLE.	e new PHY-spec /s for 10PASS-T it. Get the copp ons} use the reco	peed PHYs to use the ific RSs for these S? I can't tell from er track to correct and	perhaps like: This National Standard T uses passband But get the copper t Proposed Response PROPOSED ACCE Refered to the Cu ta	 PMD is derived from the VDSL 1.424 and at time of writing, un rack to write/vet what they want <i>Response Status</i> W PT IN PRINCIPLE. rack per the request of the comr 	transceiver speci der discussion as to say. nenter	ified in American
10G MDIO clause 45, bu PHYs. Further, if it's clau this draft. SuggestedRemedy Whatever the situation is better my suggestion: 'El clause 22 operating at {1 Proposed Response PROPOSED ACCEPT IN Refered to the Cu track p	e case: one would not obviou at they do. Or, there could b use 22, can I run it at 10 Mb, s, just add a sentence to say FM electrical {links connection 10 100} Mb/s.' <i>Response Status</i> W N PRINCIPLE. per the request of the comm	e new PHY-spec /s for 10PASS-T it. Get the copp ons} use the reco	peed PHYs to use the offic RSs for these S? I can't tell from per track to correct and onciliation sublayer of	perhaps like: This National Standard T uses passband But get the copper f Proposed Response PROPOSED ACCE Refered to the Cu tu Cl 56 SC 56.1.3	PMD is derived from the VDSL 1.424 and at time of writing, un rack to write/vet what they want <i>Response Status</i> W PT IN PRINCIPLE. rack per the request of the comr	transceiver speci der discussion as to say. nenter	ified in American s G.xxx in ITU-T. It
10G MDIO clause 45, bu PHYs. Further, if it's clauthis draft. SuggestedRemedy Whatever the situation is better my suggestion: 'El clause 22 operating at {1 Proposed Response PROPOSED ACCEPT IN Refered to the Cu track p Cl 56 SC 56.1.3	e case: one would not obviou at they do. Or, there could b use 22, can I run it at 10 Mb/ s, just add a sentence to say FM electrical {links connection 10 100} Mb/s.' <i>Response Status</i> W N PRINCIPLE. per the request of the common <i>P</i> 190	e new PHY-spec /s for 10PASS-T it. Get the copp ons} use the reco	peed PHYs to use the ific RSs for these S? I can't tell from er track to correct and	perhaps like: This National Standard T uses passband But get the copper t Proposed Response PROPOSED ACCE Refered to the Cu th Cl 56 SC 56.1.3 Dawe, Piers	PMD is derived from the VDSL 1.424 and at time of writing, un rack to write/vet what they want <i>Response Status</i> W PT IN PRINCIPLE. rack per the request of the comr <i>P</i> 190 Agilent <i>Comment Status</i> D	transceiver speci der discussion as to say. nenter	ified in American s G.xxx in ITU-T. It
10G MDIO clause 45, bu PHYs. Further, if it's clau this draft. SuggestedRemedy Whatever the situation is better my suggestion: 'El clause 22 operating at {1 Proposed Response PROPOSED ACCEPT IN Refered to the Cu track p C/ 56 SC 56.1.3 Dawe, Piers	e case: one would not obviou at they do. Or, there could b use 22, can I run it at 10 Mb/ s, just add a sentence to say FM electrical {links connection 10 100} Mb/s.' <i>Response Status</i> W N PRINCIPLE. per the request of the common <i>P</i> 190 Agilent	e new PHY-spec /s for 10PASS-T it. Get the copp ons} use the reco	peed PHYs to use the offic RSs for these S? I can't tell from per track to correct and onciliation sublayer of	perhaps like: This National Standard T uses passband But get the copper f Proposed Response PROPOSED ACCE Refered to the Cu tr C/ 56 SC 56.1.3 Dawe, Piers Comment Type E	PMD is derived from the VDSL 1.424 and at time of writing, un rack to write/vet what they want <i>Response Status</i> W PT IN PRINCIPLE. rack per the request of the comr <i>P</i> 190 Agilent <i>Comment Status</i> D	transceiver speci der discussion as to say. nenter	ified in American s G.xxx in ITU-T. It
10G MDIO clause 45, bu PHYs. Further, if it's clau this draft. SuggestedRemedy Whatever the situation is better my suggestion: 'El clause 22 operating at {1 Proposed Response PROPOSED ACCEPT IN Refered to the Cu track p Cl 56 SC 56.1.3 Dawe, Piers	e case: one would not obviou at they do. Or, there could b use 22, can I run it at 10 Mb, s, just add a sentence to say FM electrical {links connection 10 100} Mb/s.' <i>Response Status</i> W N PRINCIPLE. per the request of the common <i>P</i> 190 Agilent <i>Comment Status</i> D	e new PHY-spec /s for 10PASS-T it. Get the copp ons} use the reco	peed PHYs to use the offic RSs for these S? I can't tell from per track to correct and onciliation sublayer of	perhaps like: This National Standard T uses passband But get the copper f Proposed Response PROPOSED ACCE Refered to the Cu th Cl 56 SC 56.1.3 Dawe, Piers Comment Type E only in the wrong pl SuggestedRemedy Change 'A connecti	PMD is derived from the VDSL 1.424 and at time of writing, un rack to write/vet what they want <i>Response Status</i> W PT IN PRINCIPLE. rack per the request of the comr <i>P</i> 190 Agilent <i>Comment Status</i> D	transceiver speci der discussion as to say. nenter <i>L</i> 52 veen' to 'A conne	ified in American s G.xxx in ITU-T. It # <u>314</u>
10G MDIO clause 45, bu PHYs. Further, if it's clau this draft. SuggestedRemedy Whatever the situation is better my suggestion: 'El clause 22 operating at {1 Proposed Response PROPOSED ACCEPT IN Refered to the Cu track p Cl 56 SC 56.1.3 Dawe, Piers Comment Type E	e case: one would not obviou at they do. Or, there could b use 22, can I run it at 10 Mb, s, just add a sentence to say FM electrical {links connection 10 100} Mb/s.' <i>Response Status</i> W N PRINCIPLE. per the request of the common <i>P</i> 190 Agilent <i>Comment Status</i> D	e new PHY-spec /s for 10PASS-T it. Get the copp ons} use the reco	peed PHYs to use the offic RSs for these S? I can't tell from per track to correct and onciliation sublayer of	perhaps like: This National Standard T uses passband But get the copper f Proposed Response PROPOSED ACCE Refered to the Cu th Cl 56 SC 56.1.3 Dawe, Piers Comment Type E only in the wrong pl SuggestedRemedy Change 'A connecti	PMD is derived from the VDSL 1.424 and at time of writing, un rack to write/vet what they want <i>Response Status</i> W PT IN PRINCIPLE. rack per the request of the comr <i>P</i> 190 Agilent <i>Comment Status</i> D ace on can only be established betw tween'. Or, shorter: 'A connector <i>Response Status</i> W	transceiver speci der discussion as to say. nenter <i>L</i> 52 veen' to 'A conne	ified in American s G.xxx in ITU-T. It # <u>314</u>

C/ 56 SC 56.1.3 Dawe, Piers	P 191 Agilent	L 54	# 660	C/ 56 SC 56.1.3 Dawe, Piers	B P192 Agilent	L 15	# 316
Comment Type E Double period SuggestedRemedy Proposed Response PROPOSED ACCEPT.				have been made by confusion, obstruct set up to serve, and told that 'PHY identical to cu - No change to Cla - Retain all state ma	achines, 4B/5B coding etc. of 10	ging the rules nov call for interest (for problems. That of new PMD 0BASE-X	w would cause market olded into EFM) was call for interest was
Will remove the extra p Cl 56 SC 56.1.3 Dawe, Piers Comment Type E Broken quantity SuggestedRemedy Use non-breaking space	P191 Agilent Comment Status D	L 8	# <u>312</u>	and '100BASE-X dual S o However, 100BA o 100BASE-X PCS - Neither "OAM in F PCS' http://www.ieee802	and Clause 26, 100BASE-FX PM GMF is already happening, and w SE-X SMF will be used in the pul- is transparent to EFM OAM Frames" nor "OAM on Preamble" .org/3/smfx_study/index.html .org/3/smfx_study/public/jonssor hese expectations.	ill have applicabil blic access applic require any chan	ity even outside EFM ation space
Proposed Response PROPOSED ACCEPT.	Response Status W			spelled out, add co	n of 100BASE-LX10 and 66 from lumn for clause 24 PCS, PMA, ir the header columns much taller <i>Response Status</i> W PT IN PRINCIPLE.	ntersection with 10	00BASE-LX10 being

Will be discussed on Monday

7 56 SC 56.1.3 awe, Piers	P 192 Agilent	L 15	# 317	C/ 56 Dawe, Piers	SC 56.1.3	P 192 Agilent	L 9	# 315
comment Type TR Comm We cannot force 1000BASE-LX	<i>ment Status</i> D 10 into an 'access-or	nly ghetto' with a ı	non-traditional PCS.	Comment Ty Spelling	pe E	Comment Status D		
It was intended all along to be a 1000BASE-LH. See EFM objec P802.3ah has objectives:		SE-LX, a.k.a. a pi	ublic-standardized	SuggestedRe Change	2	E-' several times.		
1000BASE-LX extended temp 1000BASE-X up to 10km over These ports have been made by	 SM fiber. multiple NEMs for y 	years - changing t		Proposed Re PROPOS	sponse SED ACCEPT	Response Status W		
cause market confusion, deprive standardization, and deprive the and economies of scale. EFM h defined the rules.	access Ethernet ma	arket of Ethernet of	consistency, simplicity	<i>CI</i> 56 Dawe, Piers	SC 56.1.5	P 192 Agilent	L 42	# 661
iggestedRemedy Change intersection of 1000BAS	SE-LX10 and 66 fror	n M to O or blank.	If it needs to be		construct the	Comment Status D standard with management be shouldn't come betweeen two		
spelled out, add column for clau being M or O. Can make the he column in.				SuggestedRe	emedy	transmission' subclause after		
oposed Response Respo PROPOSED ACCEPT IN PRING	onse Status W CIPLE.			Proposed Re PROPOS	sponse SED REJECT.	Response Status W	,	,
Will be discussed on Monday				The curre	ent order seen	ns adequate, its not clear that	changing the or	rder adds any valu
56 SC 56.1.3	P 192	L 25	# 359	C/ 56	SC 56.1.5	P 192	L 42	# 662
we, Piers	Agilent			Dawe, Piers		Agilent		
omment Type TR Comm This table looks comprehensive	ment Status D	we mustn't mislea	ad. Need to	Comment Ty	pe E pace in title?	Agilent Comment Status D		
omment Type TR Comm This table looks comprehensive acknowledge changes to 10G.	ment Status D	we mustn't mislea	ad. Need to	Comment Ty	pace in title?	C C		
This table looks comprehensive	ment Status D but it isn't quite and tle 10 Gb/s RS, and f OAM and 10G is al	another row, title Iso O I think. Can	10GBASE.	Comment Ty Trailing s SuggestedRe Proposed Re	pace in title? emedy sponse	C C		
omment Type TR Comm This table looks comprehensive acknowledge changes to 10G. uggestedRemedy Add a third clause 66 column, tit Intersection is O. Intersection of columns much taller (like tables oposed Response Respo	ment Status D but it isn't quite and the 10 Gb/s RS, and f OAM and 10G is al 30-1) to fit the extra onse Status W	another row, title Iso O I think. Can	10GBASE.	Comment Ty Trailing s SuggestedRe Proposed Re PROPOS	pace in title? emedy sponse	Comment Status D Response Status W IN PRINCIPLE.		
This table looks comprehensive acknowledge changes to 10G. <i>aggestedRemedy</i> Add a third clause 66 column, tit Intersection is O. Intersection of columns much taller (like tables	ment Status D but it isn't quite and the 10 Gb/s RS, and f OAM and 10G is al 30-1) to fit the extra onse Status W CIPLE.	another row, title Iso O I think. Can column in.	10GBASE.	Comment Ty Trailing s SuggestedRe Proposed Re PROPOS	pace in title? emedy sponse SED ACCEPT ove it if it is the SC 56.1.5	Comment Status D Response Status W IN PRINCIPLE.	L 45	# <u>127</u>
omment Type TR Comm This table looks comprehensive acknowledge changes to 10G. 10G. uggestedRemedy Add a third clause 66 column, titl Intersection is O. Intersection or columns much taller (like tables roposed Response Response PROPOSED ACCEPT IN PRINCE Response	ment Status D but it isn't quite and the 10 Gb/s RS, and f OAM and 10G is al 30-1) to fit the extra onse Status W CIPLE.	another row, title Iso O I think. Can column in.	10GBASE.	Comment Ty Trailing s SuggestedRe Proposed Re PROPOS Will remo	pace in title? emedy sponse SED ACCEPT ove it if it is the SC 56.1.5 min ope E	Comment Status D Response Status W TIN PRINCIPLE. ere P192	L 45	# <u>127</u>
Image: Second State TR Comment Type TR Comment Type This table looks comprehensive acknowledge changes to 10G. 10G.	ment Status D but it isn't quite and the 10 Gb/s RS, and f OAM and 10G is al 30-1) to fit the extra onse Status W CIPLE.	another row, title Iso O I think. Can column in.	10GBASE.	Comment Ty Trailing s SuggestedRe Proposed Re PROPOS Will remo C/ 56 Brown, Benja Comment Ty Wrong w SuggestedRe	pace in title? sponse SED ACCEPT ove it if it is the SC 56.1.5 min ope E ord speedy	Comment Status D Response Status W IN PRINCIPLE. ere P192 Independent	L 45	# <u>127</u>

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

Page 71 of 146 C/ 56 SC 56.1.5

Cl 56 SC 56.1.5 Dawe, Piers	P 192 Agilent	L 45	# 663	<i>Cl</i> 57 Dawe, Pie	SC 57.1.2 rs	P 166 Agilent	L 27	# 99317
Comment Type E an 1000BASE-	Comment Status D			<i>Comment</i> 'Don't	<i>Type</i> TR mess with the leg	Comment Status R gacy Ethernet.'		D3.0 #313
SuggestedRemedy "a 1000BASE- (sorry	y, my mistake in my comment)"			Sectio	n a) is partly unw	orkable.		
Proposed Response PROPOSED ACCEP	Response Status W PT.			The P		ives in the PCS/PMA, not in where it is. It doesn't know		
	Response Status W	L suming task of f	# 175	58 and time; i effecti using LX10 : home 1000E old an make either: need o owns : Clause (excep For inf There any si be inv 57.1.2 These feature <i>Suggested</i> Chang '2) 100 unidire chang '3) 100	d 59, 100BASE-L t's too late to say ve, graceful evolu 'legacy' compone are not just applin in 'traditional' car BASE-LX are inte d new and for us sense to try to as we don't have a one. There are ju the network or ar e 66 RS, PCS an ot for 1000BASE- fo, clause 22 has is no strong reas tuation, as the O, oked without it (c e needs to be cha e clarifications wo e would appear in <i>dRemedy</i> ge 57.1.2 a) 2) to DBASE-X, 1000B ectional operation ge a)3) to: D0BASE-PX-D pre- dictional operation tion from OLT du recommended as elete item a) 4).	d PMA are shown as optiona PX-D, PON OLT). registers for Unidirectional e on to make the PCS unidire AM sublayer that uses it is o bviously without all its possil nged to bring it in line with ta uld still give the OAM suppo n new silicon if it's found use	ke PHYs have b e Ethernet and v is such as subso s. 100BASE-LX ccess networks: rks. Further, 100 or attachment to rks: campus and additional feature bscriber access ingineering spect al in Table 56-2. enable and Unidi ctional capability otional, and the oble functionality) able 56-2 and co rters what they v ful.	een shipping for some rery bad for the cost- riber access networks 10 and 1000BASE- they are equally at 00BASE-LX10 and 0 the same PCSs - both d wider. And it doesn't es to network type network" nor do we es, no definition of who That's as it should be irectional ability. If feature mandatory in OAM sublayer can still mmon sense. vant: the unidirectional hay be capable of fluring fault conditions.'; and 66.2, support s OAM remote fault in in the other direction
				Proposed REJE		Response Status U		

See comment #380.	C/ 57 SC 57.1.2 P196 L 33 # 320 Dawe, Piers Agilent
PMDs defined in Clauses 58 and 59 do support unidirectional operation. C/ 57 SC 57.1.2 P 196 L 30 # 319 Dawe, Piers Agilent	Comment Type TR Comment Status D Clause 60 defines PMDs, which I don't think are the same as 'physical layer devices'. It's the material in 66 that supports unidirectional operation.
Dawe, Piers Agilent Comment Type TR Comment Status D Clauses 58-60 define PMDs, which I don't think are the same as 'physical layer devices'. These particular PMDs (but not all) are oblivious to unidirectional operation. It's the material in 66 that supports it. SuggestedRemedy Change 'Subscriber access physical layer devices, defined in Clause 58 and Clause 59,' to '100 Mb/s and 1000 Mb/s {ports physical layer devices} using the PHY layers defined in 66.1 or 66.2'.	SuggestedRemedy Change 'physical layer devices, defined in Clause 60,' to '1000 Mb/s point-to-multipoint {ports physical layer devices} using the PHY layers defined in 36, 60, 65 and 66.2'. Or just '1000BASE-PX-D {ports physical layer devices}'. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See the proposed response to comment #319 for further discussion.
Proposed Response Response Status W PROPOSED ACCEPT. By removing the references to 58 and 59, the maintenance burden is reduced for future projects that add PMDs, which use the Clause 66 PCS. However, the existing wording clearly ties "subscriber access" with the PMDs in Clauses 58 and 59, which is the intent of Table 56-2 and 66.1.2 and 66.2.2. Changing the wording, per the suggested remedy, softens this connection and makes it appear as if using Clause 66 PCS/PMA is optional, which is not consistent with the actions of the EFM Task Force. Upon further review, the overview sections in 58.1 and 59.1 are not consistent and worse, are inaccurate: - 58.1 refers to 24 or 66. - 59.1 only mentions 36. This needs to be remedied.	For the sake of consistency, the wording in sub-bullet 3 should match sub-bullet 2. Change 'physical layer devices, defined in Clause 60,' to '1000 Mb/s point-to-multipoint physical layer devices using the PHY layers defined in 36, 60, 65 and 66.2'.
Cl 57 SC 57.1.2 P 196 L 30 # 318 Dawe, Piers Agilent Comment Type TR Comment Status D Consideration of the issue of what a physical layer device is for, reminds us that the physical layer devices in 58 and 59 are not all just 'subscriber access physical layer devices,'. 100BASE-LX10 and 1000BASE-LX10 are specifically intended for general devices in the physical for the status of the specifically intended for general devices.	

SuggestedRemedy

good for both applications.

Delete 'Subscriber access' from bullet 2.

Proposed Response Response Status W PROPOSED ACCEPT.

See comment #319, which reworded this sub-bullet.

purpose use (including multimode fiber for the latter). Naturally, because single mode fiber is the same stuff in traditional as in access networks, the same physical layer devices are

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

Page 73 of 146 C/ 57 SC 57.1.2

C/ 57	SC 57.1.2	P 196	L 36	# 321
Dawe, Pier	S	Agilent		

Comment Type **TR** Comment Status **D**

The usual problem with 'may'. This could be read as, any other physical layer device might be found to (maybe varying from part to part), any other physical layer device is allowed to, some other types of physical layer device might be found to (consistent by type), some other types of physical layer device are allowed to. By calling out 66.1 and 66.2 in bullet 2, we can make most of these problems go away. We can avoid the confusion point by remaining silent instead of giving non-information. But to be fair to the reader, we need to tell him where unidirectional transmission of frames is not feasible.

SuggestedRemedy

Change bullet 4 to '2BASE-TL, 10PASS-TS, 1000BASE-T and 1000BASE-PX-U do not support unidirectional operation but can support other OAM transport on functional links. 2BASE-TL, 10PASS-TS, 1000BASE-T have specific remote fault signaling mechanisms in the physical layer.'

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE

Sub-bullet 4 does not want to be a maintained list of port types that don't support unidirectional operation. The suggested remedy isn't a complete list and begs the question of which other ones don't support unidirection mode.

Suggest the following wording change:

"4) Physical layer devices that do not use 66.1 or 66.2 do not support unidirectional operation allowing OAM remote fault indication during fault conditions. Some physical layer devices (e.g., 2BASE-TL and 10PASS-TS) have specific remote fault signaling mechanisms in the physical layer."

See the proposed response to comment #319 for further discussion.

CI 57	SC 57.1.2	P 196	L 53	# 158
Braga, Aldob	pino	UNH-IOL		

Comment Type T Comment Status D

"These objectives support a subset of the user-plane OAM requirements found in Recommendation ITU-TY.1730 - Requirements for OAM functions in Ethernet based networks."

Clauses do not typically have to justify their existence with a document from the ITU-T? The objectives were created independent of this document. Was it the intent of the commenter who posed the question of whether OAM will be used, to have that document referenced in this clause/document?

SuggestedRemedy

Remove the sentence.

Proposed Response Response Status W PROPOSED REJECT.

This statement was added as a result of D3.0 comment #165. For convenience, I have included the comment below:

"Given the work by the ITU-T in creating Y.1730 that describes Ethernet OAM requirements, it would make sense that the section that describes the OAM client mentions it. That is, the ITU-T requirements for a much larger scope client indicates several required OAM functions (e.g., loopback, discovery, performance monitoring & continuous connectivity check) that are satisfied by clause 57. This addition will show the relationship with the ITU-T work."

The OAM STF considered this comment in Vancouver and decided to add the referenced statement and add an entry in Annex A - Bibliography.

D3.0 comment #165 was a product (at least in part) of D2.0 comment #980. That comment is also included here for convenience:

"What set of documented requirements is being satisfied by OAM? The only justification that I can find is the vague "The OAM described in this clause provides data link layer mechanisms that complement applications that may reside in higher layers." (emphasis added).

There is no reference to any particular application, set of applications, documented set of requirements for such applications or protocol/interface to any such thing as an "OAM client". There is no definition of an OAM Client or what standard defines the requirements, interfaces or interoperability parameters for such a client. If such a client is speculated for the future, then there is not even documentation of a commitment for such a project by a standards group."

The remedy for D2.0 comment #980 mentioned "providing appropriate justification/references/information".

The OAM STF felt that the referenced statement served to resolve the D3.0 comment #165 and the older D2.0 comment #980.

			P802.3ah	Draft 3.1 Comments
Cl 57 SC 57.1.2 Dawe, Piers	P 196 Agilent	L 54	# 301	CI 57 SC 57.2.5.2.2 P 201 L 13 # 211 Martin, David Nortel Networks
Comment Type E Add (hopefully active) li	Comment Status D nk to Annex A.			Comment Type E Comment Status D Anal wording suggestion.
SuggestedRemedy				SuggestedRemedy
Add '[Bn]' or '[B8]' betw	een networks and . IEEE staf	f to renumber E	n on merge.	Replace "is the Flags field of the incoming OAMPDU" with "is the entire Flags field of the
Proposed Response PROPOSED ACCEPT.	Response Status W			incoming OAMPDU" Proposed Response Response Status W PROPOSED ACCEPT.
Cl 57 SC 57.2.11.5 Martin, David	P 209 Nortel Network	L 20 is	# 214	C/ 57 SC 57.2.6 P 203 L 21 # 322 Dawe, Piers Agilent
Comment Type T Incorrect terminology?	Comment Status D			Comment Type E Comment Status D issues ?
	multipoint," with "e.g., emulate	ed point-to-poin	. II ,	SuggestedRemedy issued
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
C/ 57 SC 57.2.12 Squire, Matt	P 209 Hatteras Netwo	L 52 orks	# 592	C/ 57 SC 57.2.8.1.2 P 204 L 27 # 212 Martin, David Nortel Networks
	Comment Status D nal mode applies when one "e n of a link is non-operational. e screwy.			Comment Type T Comment Status D Doesn't the DA value have to be the multicast value? Why does it say "individual"? SuggestedRemedy
SuggestedRemedy Change "end" to "direct	ion".			Replace "may specify either an individual or a group MAC entity address" with "must specify the multicast group MAC entity address"
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
C/ 57 SC 57.2.2 Martin, David	P199 Nortel Network	L 20	# 210	Since "Good catch" is a baseball phrase, I'll say "Nice save" for the Sens fan.
Comment Type E Missing punctuation.	Comment Status D			
SuggestedRemedy Replace "scope of this s	standard" with "scope of this s	standard."		
Proposed Response	Response Status W			

P802.3ah Draft 3.1 C	omments
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Cl 57 SC 57.2.8.1 Braga, Aldobino	.2 P 204 UNH-IOL	L 30	# 159	C/ 57 SC 57.2.9 Dawe, Piers	P 205 Agilent	L 31	# 324
Comment Type T What exactly is the or	Comment Status D am_service_data_unit?			Comment Type E Second sentence gives the	Comment Status D e lie to the first.		
Or the Subtype and th Or the Code field and SuggestedRemedy I'd like to see a staten Proposed Response PROPOSED ACCEP Add sentence as follo "The oam_service_da transmitted within the	the FCS exclusive? and the FCS exclusive? the FCS exclusive? the FCS exclusive? the FCS exclusive? ment clearly defining it. <i>Response Status</i> W T IN PRINCIPLE.			SuggestedRemedy Change first sentence to 'I Proposed Response PROPOSED ACCEPT IN Change first two sentence "A DTE incorporating the 0 is enabled, a DTE capable Passive." The purpose of the subcla	Response Status W PRINCIPLE. s to read: DAM sublayer supports Ac of both Active and Passi	ctive and/or Pass ve modes shall s	ive mode. When OAM elect either Active or
C/ 57 SC 57.2.8.2 Martin, David	.2 P 205 Nortel Net	L 10 works	# 213				
Comment Type T Why does it say "indiv	Comment Status D	e DA have to be the	multicast address?				
SuggestedRemedy Replace "may be eith address"	er an individual or a group a	address" with "must	be the multicast group				
Proposed Response PROPOSED ACCEP	Response Status W						

SC 57.2.9

C/ 57 SC 57.3.2.1.7 P 216 L 13 # 176 Braga, Aldobino UNH-IOL	C/ 57 SC 57.3.2.2.3 P217 L19 # 163 Braga, Aldobino UNH-IOL
Comment Type T Comment Status D This paragraph is incorrect.	Comment Type E Comment Status D This "shall statement" is redundant, the same "shall" is stated on line 51. This doesn't make it any more required. But it also doesn't mean it needs to be removed
Text indicates that Local Stable is only set after local_pdu is set to ANY. 1) A device can't get to the SEND_ANY state where local_pdu is set to ANY, without indicating to the remote device that it is satisfied (done by setting Local Stable). 2) A device can't get to the SEND_ANY state where local_pdu is set to ANY, without	SuggestedRemedy So, Please consider replacing the "shall ensure" with "ensures" Proposed Response Response Status W PROPOSED ACCEPT.
knowing the remote is stable. But the remote won't be able to set its Local Stable bit because of #1.	C/ 57 SC 57.3.2.2.3 P 217 L 23 # 161 Braga, Aldobino UNH-IOL
Text differs from the state machine. 3) local_stable which ties to the Local Stable bit is set to true in the SEND_LOCAL_REMOTE_2 state (which is before local_pdu is set to ANY). StuggestedRemedy	Comment Type E Comment Status D "If, however, the OAM sublayer entity is configured to not send any OAMPDUs, as indicated by the local_pdu variable set to RX_INFO, the Multiplexer will simply restart the pdu_timer by returning to the RESET state."
Change the paragraph to read:	The Multiplexer doesn't reset the pdu_timer. The Transmit function does.
"The Local Stable and Local Discovering bits of the Flags field communicate the status of the local Discovery process to the peer. When the OAM Discovery process is started, the local DTE sets the Local Stable and Local Discovering bits to 0x1 indicating OAM Discovery has not completed.	SuggestedRemedy Replace "Multiplexer" with "Transmitter" or "Transmit function" Proposed Response Response Status W
If, after learning of the remote OAM settings, the local OAM client determines it is unsatisfied it sets the Local Stable and Local Discovering bits to 0x0 indicating Discovery	PROPOSED ACCEPT IN PRINCIPLE. "Multiplexer" will be replaced with "Transmit function".
cannot successfully complete. If the local OAM client is satisfied, the local DTE sets the Local Stable and Local Discovering bits of the Flags field to 0x2 indicating the Local OAM is satisfied.	C/ 57 SC 57.3.3.1 P 216 L 52 # 593 Squire, Matt Hatteras Networks
When both Local and Remote Stable and Discovering bits are set to 0x2 indicating that both OAM clients are satisfied, the OAM Discovery process has successfully completed and local_pdu is set to ANY. See Table 57-3 for more information."	Comment Type E Comment Status D Replace "forward MAC Client frame or loop back frame from Parser" with "forward a MAC Client frame or loop back a frame from the Parser" SuggestedRemedy
This brings up another point. The Discovering bit is not really a fitting name since being set to 0 doesn't really mean the Discovery process is done. It's more like an Evaluating bit. When the bit is set to 0 the client has made a decision.	Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	
Change paragraph per suggested remedy.	
Also, per comment included at end of suggested remedy, change "Discovering" to "Evaluating" to more adequately reflect state. Search and replace Discovering as appropriate. (Note: The encodings remain the same.)	

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

P802.3ah Draft 3.1 C	omments
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D ALL 1.	.1 P 222	L11	# 157	Cl 57	SC 57.4.2.1	P 222	L 46	# 215
Braga, Aldobino	UNH-IOL			Martin, Davi	ł	Nortel Netv	vorks	
Comment Type T	Comment Status D			Comment Ty	rpe T	Comment Status D		
Table 57-3. Search a	and Replace Error?					e Remote fields [6:5] are fille 7.5.2.2 p.231 for the TLVs.	ed in from the rece	eived Local fields [4:3] -
	ances of "In Local Information T cific to Information OAMPDUs w			SuggestedR	emedy			
SuggestedRemedy	Chic to information OAMPDOS w					e Remote Stable and Remo		
,	formation TLVs" from:					I Stable and Local Discover	ing values from th	e remote OAM peer."
1) the Reserved field		s 0x3		Proposed Re PROPO	esponse SED ACCEP ⁻	Response Status W		
Proposed Response	Response Status W			C/ 57	SC 57.4.2.2	P 223	L 03	# 216
PROPOSED ACCEI	PT.			Martin, Davi	ł	Nortel Netw	vorks	
Similar to comment	#594.			Comment Ty	<i>pe</i> T t reference.	Comment Status D		
C/ 57 SC 57.4.2.	.1 P 222	L12	# 594					
Squire, Matt	Hatteras Netv	vorks		SuggestedR	-	(the Order Caldia and had he		and the latence of the s
Comment Type E	Comment Status D			OAMPD	Us it generate	f the Code field is set by the es" with "The value of the Co	ode field is set by	
	board with that "In Local Informa			the Con	rol function fo	or Information OAMPDUs it	generates"	
this table is about th	board with that "In Local Informa e flags field which is not part of			the Con Proposed Re		r Information OAMPDUs it Response Status W	generates"	·
this table is about th SuggestedRemedy	e flags field which is not part of	local information	TLVs.	Proposed R		Response Status W	generates"	
this table is about th SuggestedRemedy Zap that text about l	e flags field which is not part of ocal information TLVs from this	local information	TLVs.	Proposed R PROPO	esponse SED ACCEP ⁻	Response Status W		
this table is about th SuggestedRemedy Zap that text about le Proposed Response	e flags field which is not part of ocal information TLVs from this <i>Response Status</i> W	local information	TLVs.	Proposed R PROPO CI 57	esponse SED ACCEP ⁻ SC 57.4.2.2	Response Status W T. P223	generates" L 3	# 1 <u>60</u>
this table is about th SuggestedRemedy Zap that text about l	e flags field which is not part of ocal information TLVs from this <i>Response Status</i> W	local information	TLVs.	Proposed R PROPO C/ 57 Braga, Aldot	esponse SED ACCEP SC 57.4.2.2 vino	Response Status W T. P223 UNH-IOL		
this table is about th SuggestedRemedy Zap that text about le Proposed Response PROPOSED ACCEI Cl 57 SC 57.4.2	e flags field which is not part of ocal information TLVs from this <i>Response Status</i> W PT. .1 <i>P</i> 222	local information	TLVs.	Proposed R PROPO CI 57 Braga, Aldot Comment Ty "The val	esponse SED ACCEP SC 57.4.2.2 vino <i>pe</i> E ue of the Cod	Response Status W T. P223	L3	# <u>160</u>
this table is about th SuggestedRemedy Zap that text about le Proposed Response PROPOSED ACCEI CI 57 SC 57.4.2. Braga, Aldobino	e flags field which is not part of ocal information TLVs from this <i>Response Status</i> W PT. .1 <i>P</i> 222 UNH-IOL	local information	r TLVs.	Proposed R PROPO CI 57 Braga, Aldol Comment Ty	esponse SED ACCEP SC 57.4.2.2 vino <i>pe</i> E ue of the Cod	Response Status W T. P223 UNH-IOL Comment Status D	L3	# <u>160</u>
this table is about th SuggestedRemedy Zap that text about le Proposed Response PROPOSED ACCEI CI 57 SC 57.4.2. Braga, Aldobino Comment Type T	e flags field which is not part of ocal information TLVs from this <i>Response Status</i> W PT. .1 <i>P</i> 222	local information table (multiple or <i>L</i> 16	TLVs. ccurences). # 177	Proposed Ra PROPO Cl 57 Braga, Aldol Comment Ty "The val generate The Coo	esponse SED ACCEP SC 57.4.2.2 bino ppe E ue of the Cod is."	Response Status W T. P223 UNH-IOL Comment Status D le field is set by the Multiple et by the Mux function on O	L 3	# 1 <u>60</u>
this table is about th SuggestedRemedy Zap that text about le Proposed Response PROPOSED ACCEI Cl 57 SC 57.4.2. Braga, Aldobino Comment Type T The Remote Stable	e flags field which is not part of ocal information TLVs from this <i>Response Status</i> W PT. .1 <i>P</i> 222 UNH-IOL <i>Comment Status</i> D	local information table (multiple or <i>L</i> 16	TLVs. ccurences). # 177	Proposed Ra PROPO Cl 57 Braga, Aldol Comment Ty "The val generate The Coo	esponse SED ACCEP SC 57.4.2.2 bino <i>tpe</i> E ue of the Cod ss." le field isn't se e Transmit fu	Response Status W T. P223 UNH-IOL Comment Status D le field is set by the Multiple et by the Mux function on O	L 3	# 1 <u>60</u>
this table is about th SuggestedRemedy Zap that text about le Proposed Response PROPOSED ACCEI Cl 57 SC 57.4.2. Braga, Aldobino Comment Type T The Remote Stable SuggestedRemedy Please add a statem	e flags field which is not part of ocal information TLVs from this <i>Response Status</i> W PT. .1 <i>P</i> 222 UNH-IOL <i>Comment Status</i> D and Discovering bits are copied ment to this affect.	local information table (multiple or <i>L</i> 16 from the last rec	TLVs. ccurences). # 177	Proposed R PROPO Cl 57 Braga, Aldot Comment Ty "The val generate The Coo set by th Suggested R Replace	esponse SED ACCEP SC 57.4.2.2 bino pe E ue of the Cod es." le field isn't se e Transmit fu emedy "Multiplexer"	Response Status W T. P223 UNH-IOL Comment Status D le field is set by the Multiple et by the Mux function on Or nction. with "Transmit"	L 3	# 1 <u>60</u>
this table is about th SuggestedRemedy Zap that text about th Proposed Response PROPOSED ACCEI Cl 57 SC 57.4.2. Braga, Aldobino Comment Type T The Remote Stable SuggestedRemedy Please add a statem Remove the current Proposed Response	e flags field which is not part of ocal information TLVs from this <i>Response Status</i> W PT. .1 <i>P</i> 222 UNH-IOL <i>Comment Status</i> D and Discovering bits are copied ment to this affect. description if it pleases the edito <i>Response Status</i> W	local information table (multiple or <i>L</i> 16 from the last rec	TLVs. ccurences). # 177	Proposed Ro PROPO Cl 57 Braga, Aldot Comment Ty "The val generate The Coc set by th SuggestedRo Replace Proposed Ro	esponse SED ACCEP SC 57.4.2.2 bino pe E ue of the Cod es." le field isn't se e Transmit fu emedy "Multiplexer"	Response Status W T. P223 UNH-IOL Comment Status D le field is set by the Multiple et by the Mux function on Or nction. with "Transmit" Response Status W	L 3	# 1 <u>60</u>
this table is about th SuggestedRemedy Zap that text about th Proposed Response PROPOSED ACCEN CI 57 SC 57.4.2. Braga, Aldobino Comment Type T The Remote Stable SuggestedRemedy Please add a statem Remove the current	e flags field which is not part of ocal information TLVs from this <i>Response Status</i> W PT. .1 <i>P</i> 222 UNH-IOL <i>Comment Status</i> D and Discovering bits are copied ment to this affect. description if it pleases the edito <i>Response Status</i> W	local information table (multiple or <i>L</i> 16 from the last rec	TLVs. ccurences). # 177	Proposed Ro PROPO Cl 57 Braga, Aldot Comment Ty "The val generate The Coc set by th SuggestedRo Replace Proposed Ro	esponse SED ACCEP SC 57.4.2.2 bino pe E ue of the Cod ss." le field isn't se e Transmit fu emedy "Multiplexer" esponse	Response Status W T. P223 UNH-IOL Comment Status D le field is set by the Multiple et by the Mux function on Or nction. with "Transmit" Response Status W	L 3	# 160

SC 57.4.2.2

CI 57	SC 57.4.3.1	P1	92	L 01	# 99318
James, Da	avid	JGG			
Comment	Type TR	Comment Status	Α		D3.0 #736
such,					ather ambiguous. As ings of an example hex
Suggeste	dRemedy				
Show	a clear example	of how the OUI is ma	pped, ı	ising an hex exan	nple.
'	Response	Response Status	U		
Add a	bullet to 57.4.1 to	o read:			
orderi	ing of the OUI por	of any OUI field withir tion of the DA/SA. Ac 02-2001 Clause 9."			al to the bit/octet le format of OUIs can
Modif	y Figure 57-14 by	removing the bit orde	ering e	xample.	
Modif	y Table 57-10 by	removing the second	senter	ice.	
Madif	y other references	s as appropriate.			
IVIODII					

C/ 57	SC 57.4.3.1	P 192	L 01	# 99319
James, Dav	/id	JGG		

Comment Type TR Comment Status R

The need for uniqueness of an OUI based identifier is best met by utilizing the EUI-48 or EUI-64 definitions, so that each organization doesn't have to understand the context when assigning such numbers to the requesting division.

D3.0 #735

SuggestedRemedy

Revise the OUI and Vendor Specific Information field to be either 48-bit or 64-bit fields, defined to be an EUI-48 or EUI-64.

Proposed Response Response Status U

REJECT.

During the November meeting of the RAC (see notes below) the following decisions were established.

- - -

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS REGISTRATION AUTHORITY COMMITTEE (RAC)

INTERIM MEETING MINUTES From: 13 November 2003 Location: Hyatt Regency Albuquerque Boardroom North 330 Tijeras Albuquerque, New Mexico

Decision 111303 RAC-04: EUI-48 and 64-bit identifiers are appropriate for instance identification.

Decision 111303 RAC-05: Protocol identifiers in addition to 48 and 64 bits are acceptable to use an OUI followed by N Octet, subject to the constraint for the expected consumption rate, the number space can never be consumed.

- - -

The combination of the OUI and Vendor Specific Information fields does not constitute a unique 56-bit identifier.

The purpose of the Vendor Specific Information field is not instance identification, but rather class identification.

The meaning of the bits in the Vendor Specific Information field is out of scope.

The Vendor Specific Information field _may_ be used to differentiate amongst a vendor's product models and versions. It is not a serial number or anything like unto a serial number.

See also response to comment #737.

Cl 57 SC 57.4.3.1 P196 L16 # 99320 James, David JGG D3.0 #737 The need for uniqueness of an OUI based identifier is best met by utilizing the EUI-48 or EUI-64 definitions, so that each organization doesn't have to understand the context when assigning such numbers to the requesting division. SuggestedRemedy Revise the OUI and following data, so that this starts with an EUI-48 or EUI-64 value. Otherwise, multi-division organizations will have to define their own subparsing conventions, which is prone to error (some have already happened with Japanese vendors and parts of 1394/AVC that do this type of thing). Proposed Response Response Status U REJECT. Governance of the internal behavior of multi-division organizations is entirely out of scope of the IEEE standards activities. See also response to comment #735. C/ 57 SC 57.4.3.1 P196 L24 99321 James, David JGG JGG D3.0 #738 The IEEE/RAC defines OUIs as HEX values. Given the confusion between leftmost being first, or the first transmitted bit being first, any descriptions in terms of bits and/or bit ordering should be removed. SuggestedRemedy Eliminate the binary text: the hex values are sufficient. Proposed Response Response Status U	C/ 57
Comment Type TR Comment Status R D3.0 #737 The need for uniqueness of an OUI based identifier is best met by utilizing the EUI-48 or EUI-64 definitions, so that each organization doesn't have to understand the context when assigning such numbers to the requesting division. SuggestedRemedy Revise the OUI and following data, so that this starts with an EUI-48 or EUI-64 value. Otherwise, multi-division organizations will have to define their own subparsing conventions, which is prone to error (some have already happened with Japanese vendors and parts of 1394/AVC that do this type of thing). Proposed Response Response Status U REJECT. Governance of the internal behavior of multi-division organizations is entirely out of scope of the IEEE standards activities. See also response to comment #735. Cl 57 SC 57.4.3.1 P196 L24 # 99321 James, David JGG D3.0 #738 The IEEE/RAC defines OUIs as HEX values. Given the confusion between leftmost being first, or the first transmitted bit being first, any descriptions in terms of bits and/or bit ordering should be removed. SuggestedRemedy SuggestedRemedy Eliminate the binary text: the hex values are sufficient. Proposed Response Response Status U	
The need for uniqueness of an OUI based identifier is best met by utilizing the EUI-48 or EUI-64 definitions, so that each organization doesn't have to understand the context when assigning such numbers to the requesting division. SuggestedRemedy Revise the OUI and following data, so that this starts with an EUI-48 or EUI-64 value. Otherwise, multi-division organizations will have to define their own subparsing conventions, which is prone to error (some have already happened with Japanese vendors and parts of 1394/AVC that do this type of thing). Proposed Response Response Status U REJECT. Governance of the internal behavior of multi-division organizations is entirely out of scope of the IEEE standards activities. See also response to comment #735. Cl 57 SC 57.4.3.1 P 196 L 24 # 99321 James, David JGG Comment Type TR Comment Status A D3.0 #738 The IEEE/RAC defines OUIs as HEX values. Given the confusion between leftmost being first, or the first transmitted bit being first, any descriptions in terms of bits and/or bit ordering should be removed. SuggestedRemedy Eliminate the binary text: the hex values are sufficient. Proposed Response Response Response Status U	James,
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Proposed Response Response Status U REJECT. Governance of the internal behavior of multi-division organizations is entirely out of scope of the IEEE standards activities. See also response to comment #735. Cl 57 SC 57.4.3.1 P 196 L 24 # 99321 James, David JGG Comment Type TR Comment Status A D3.0 #738 The IEEE/RAC defines OUIs as HEX values. Given the confusion between leftmost being first, or the first transmitted bit being first, any descriptions in terms of bits and/or bit ordering should be removed. SuggestedRemedy Eliminate the binary text: the hex values are sufficient. Proposed Response Response Status U	fou Propos
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Eliminate the binary text: the hex values are sufficient. Proposed Response Response Status U	AC
	Re
	CI 57
ACCEPT IN PRINCIPLE.	James,
See comment #736, which removes the bit ordering example.	Comme In r suc fiel
	Sugges She
	Propos AC

CI 57	SC 57.4.3.1	P 19)7	L 40	# 99322
James, Davi	d	JGG			
Comment Ty	vpe TR	Comment Status	R		D3.0 #739

Given the inconsistencies/ambiguities of the OUI definitions within 802.3, any definition should be self-contained, not cross referencing something else.

SuggestedRemedy

Eliminate the OUI cross reference to:

found in IEEE Std 802-2001 Clause 9.

Proposed Response	Response Status	U
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REJECT.

See comment #736, which moves the reference to 802-2001 Clause 9 to 57.4.1.

CI 57	SC 57.	4.3.1	P19	99	L 23	# 99323
James, Da	avid		JGG			
Comment	Туре Т	R Co	mment Status	Α		D3.0 #740
such, t	the IEEE/F		that standards			ther ambiguous. As ngs of an example hex
Suggested	dRemedy					
Show	a figure wi	th the classi	cal HEX-value e	example) .	
Proposed	Response	Res	sponse Status	U		
ACCE	, PT IN PRI					
	PT IN PRI	NCIPLE.	Iso, see #736.			
Remov	PT IN PRI	NCIPLE. sentence. A	Iso, see #736. P 2(00	L 09	# 99324
Remov	PT IN PRI ve second SC 57 .	NCIPLE. sentence. A		00	L 09	# 99324
	PT IN PRI ve second SC 57. avid	NCIPLE. sentence. A 4.3.1	P 20		L 09	# 99324 D3.0 #741
Remov Cl 57 James, Da Comment In mar such, t	PT IN PRI ve second SC 57. avid <i>Type</i> T ny cases (o the IEEE/F	NCIPLE. sentence. A 4.3.1 R Cc often 802 rela	P 20 JGG omment Status ated), the orderi that standards	A ing of bi	its in the OUI is ra	

Show a figure with the classical HEX-value example.

Proposed Response Response Status U

ACCEPT IN PRINCIPLE.

See comment #736, which removes bit ordering examples of OUIs.

Cl 57 SC 57.4.3.3 Messenger, John	P 224 ADVA Optical	L 28 Network	# 553	Cl 57 Messenge	SC 57.5.2.1 . John	P 228 ADVA Optical N	L 50 Network	# 550
Comment Type TR D3.1 changed the size 57-12. SuggestedRemedy In Figure 57-12, chang For Variable Descripto For Variable Leaf, chang Change the example V Proposed Response PROPOSED ACCEPT	Comment Status D e of the Variable Leaf field, but ors #1 and #2, change "2" to "3 inge "1" to "2". Variable Leaf value from "0x06 <i>Response Status</i> W	this change wa Octets". 5". 5" to "0x0006".		Comment The er objects that th accore (c)). Suggested Add se as a 1 in 57.4 Proposed	Type TR neoding of the O/ s: a reserved fiel e combination of ling to the applic Remedy entence to subpo 6-bit number and .1 (c)".	Comment Status D AMPDU configuration is not cle d and an 11-bit Maximum OAM these two items is treated as a able rule for binary numbers re int "g)", end of line 50: "The OA encoded accordingly.", or if pr Response Status W	early specified IPDU Size fie a 16-bit numb presented in AMPDU Conf	Id. It needs to be clear er and encoded multiple octets (57.4.1 iguration field is treated
Cl 57 SC 57.4.3.4 Messenger, John Comment Type TR	P 226 ADVA Optical Comment Status D		# 554	C/ 57	SC 57.5.2.1	econd suggested remedy. P 229 UNH-IOL	L 21	# 162
57-13. SuggestedRemedy In Figure 57-13, chang	of the Variable Leaf field, but ge the following values under " r #1, change "7" to "8". o "2".	Ū	is onlitted norm ligure	have o Suggested	<i>Type</i> T are two Reserve ne.	Comment Status D d bit spaces in this table. Other	r Local Inform	nation TLV fields only
Change the example I Proposed Response PROPOSED ACCEPT	Leaf value from "0x06" to "0x00 Response Status W	006".		Expan Proposed	d the other Rese	Response Status W	0 and 2 respe	ectively.
Cl 57 SC 57.5.2 Squire, Matt Comment Type E using "TLV type value the table. SuggestedRemedy Just call it "TLV types'	P 228 Hatteras Netw Comment Status D s" to me indicates we're going		# 595	Suggested	Type E ect cross-referen Remedy	P 232 Nortel Networks <i>Comment Status</i> D ce. 30.11.1.1.34" with "this maps to		# [<u>218</u> 5"
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed		Response Status W	5 50.11.1.1.5	<u>,</u>

C/ 57 SC 57.5.3.1 Squire, Matt	P 232 Hatteras Netwo	L 15 orks	# 596	CI 57 S Martin, David	C 57.5.3.1	P 232 Nortel Networks	L 26	# 221
	Comment Status D that" in the threshold of two ev paragraph much more difficult.	ent definitions,	but not all events, and	Comment Type Add referer	e E nce to c30 lo	Comment Status D cal attribute.		
uggestedRemedy	dded "a limit that" from the syn	nbol error even [.]	t threshold and the	SuggestedRem Add "Wher to 30.11.1.	n this event is	s generated by the local DTE a	nd if Clause 3	0 is present, this map
roposed Response PROPOSED ACCEPT	Response Status W			Proposed Resp PROPOSE	oonse D ACCEPT.	Response Status W		
Remove "a limit that" fr	-			C/ 57 S Martin, David	°C 57.5.3.1	P 232 Nortel Networks	L 30	# 222
Remove "a limit that" fr	rom 57.5.3.4 bullet e).	L 18	# 219	Comment Type Add referer	e E nce to c30 at	Comment Status D tributes.		
lartin, David	Nortel Network		# 21 <u>5</u>	SuggestedRem	nedy			
Comment Type E Incorrect cross-referen	Comment Status D			Add "When to 30.11.1.	n this event is	generated by the local DTE a his event is received from the 0.11.1.1.42."		
	30.11.1.1.34" with "this maps t	o 30.11.1.1.35"		Proposed Resp PROPOSE	oonse D ACCEPT.	Response Status W		
Replace "this maps to :	Response Status W	to 30.11.1.1.35'		PROPOSE		Response Status W P 232 Nortel Networks	L 6	# 217
Replace "this maps to 3 Proposed Response PROPOSED ACCEPT. Cl 57 SC 57.5.3.1	Response Status W	L 24	# 220	PROPOSE C/ 57 S Martin, David Comment Type	D ACCEPT.	P 232 Nortel Networks Comment Status D	•	# <u>217</u>
Replace "this maps to 3 Proposed Response PROPOSED ACCEPT. C/ 57 SC 57.5.3.1 Martin, David	Response Status W P 232 Nortel Network Comment Status D	L 24		PROPOSE CI 57 S Martin, David Comment Type Add referen SuggestedRem Add "When	ED ACCEPT. C 57.5.3.1 E E nce to c30 lo nedy n this event is	P 232 Nortel Networks Comment Status D		
Replace "this maps to 3 Proposed Response PROPOSED ACCEPT. 57 SC 57.5.3.1 lartin, David Comment Type E Add reference to c30 a SuggestedRemedy Add "When this event i to 30.11.1.1.35. When	Response Status W P 232 Nortel Network Comment Status D attributes. is generated by the local DTE this event is received from the	L 24 s and if Clause 30	# 220	PROPOSE CI 57 S Martin, David Comment Type Add referen SuggestedRem Add "When to 30.11.1. Proposed Resp	ED ACCEPT. C 57.5.3.1 E nce to c30 lo nedy n this event is 1.35."	P 232 Nortel Networks Comment Status D cal attribute.		
Replace "this maps to 3 proposed Response PROPOSED ACCEPT 57 SC 57.5.3.1 Proposed Response PROPOSED ACCEPT 57 SC 57.5.3.1 Proposed Response Add reference to c30 a Suggested Remedy Add "When this event i to 30.11.1.1.35. When present, this maps to 3	Response Status W P 232 Nortel Network Comment Status D attributes. is generated by the local DTE a this event is received from the 80.11.1.1.42." Response Status W	L 24 s and if Clause 30	# 220	PROPOSE CI 57 S Martin, David Comment Type Add referen SuggestedRem Add "When to 30.11.1. Proposed Resp PROPOSE	ED ACCEPT. C 57.5.3.1 E E nce to c30 lo nedy this event is 1.35." ponse	P 232 Nortel Networks Comment Status D cal attribute.	nd if Clause 3	
Replace "this maps to a roposed Response PROPOSED ACCEPT. 57 SC 57.5.3.1 lartin, David comment Type E Add reference to c30 a uggestedRemedy Add "When this event i to 30.11.1.1.35. When present, this maps to 3 roposed Response	Response Status W P 232 Nortel Network Comment Status D attributes. is generated by the local DTE a this event is received from the 80.11.1.1.42." Response Status W	L 24 s and if Clause 30	# 220	PROPOSE CI 57 S Martin, David Comment Type Add referen SuggestedRem Add "When to 30.11.1. Proposed Resp PROPOSE CI 57 S Martin, David Comment Type	ED ACCEPT. C 57.5.3.1 E E nce to c30 lo nedy this event is 1.35." ponse ED ACCEPT. C 57.5.3.2	P 232 Nortel Networks Comment Status D cal attribute. s generated by the local DTE a Response Status W P 232 Nortel Networks Comment Status D	nd if Clause 3	0 is present, this map
Proposed Response PROPOSED ACCEPT. Cl 57 SC 57.5.3.1 Martin, David Comment Type E Add reference to c30 a SuggestedRemedy Add "When this event i to 30.11.1.1.35. When present, this maps to 3 Proposed Response	Response Status W P 232 Nortel Network Comment Status D attributes. is generated by the local DTE a this event is received from the 80.11.1.1.42." Response Status W	L 24 s and if Clause 30	# 220	PROPOSE Cl 57 S Martin, David Comment Type Add referen SuggestedRem Add "When to 30.11.1." Proposed Resp PROPOSE Cl 57 S Martin, David Comment Type Add referen SuggestedRem	ED ACCEPT. C 57.5.3.1 E E nce to c30 lo nedy this event is D ACCEPT. C 57.5.3.2 E E nce to c30 lo nedy this event is	P 232 Nortel Networks Comment Status D cal attribute. s generated by the local DTE a Response Status W P 232 Nortel Networks Comment Status D	nd if Clause 3	0 is present, this map

SC 57.5.3.2

P802.3ah Draft 3.1 Comments C/ 57 SC 57.5.3.2 P 233 L13 # 226 C/ 57 SC 57.5.3.2 P 233 L 53 # 224 Martin. David Nortel Networks Martin. David Nortel Networks Comment Type E Comment Status D Comment Type Ε Comment Status D Incorrect reference. Add references to the c30 attributes. SuggestedRemedy **SugaestedRemedv** Add "When this event is generated by the local DTE and if Clause 30 is present, this maps Change "this maps to 30.11.1.1.36" to "this maps to 30.11.1.1.37" to 30.11.1.1.37. When this event is received from the remote DTE and if Clause 30 is Proposed Response Response Status W present, this maps to 30.11.1.1.43." PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. C/ 57 SC 57.5.3.2 P 233 L7 # 225 Martin, David Nortel Networks C/ 57 P 233 # 227 SC 57.5.3.2 / 15 Comment Type Е Comment Status D Martin. David Nortel Networks Incorrect reference. Comment Type E Comment Status D SuggestedRemedy Add reference to c30 local attribute. Change "this maps to 30.11.1.1.36" to "this maps to 30.11.1.1.37" SuggestedRemedy Proposed Response Response Status W Add "When this event is generated by the local DTE and if Clause 30 is present, this maps to 30.11.1.1.37." PROPOSED ACCEPT. Proposed Response Response Status W C/ 57 SC 57.5.3.3 P 233 L 38 # 229 PROPOSED ACCEPT. Martin. David Nortel Networks C/ 57 P 233 SC 57.5.3.2 L18 # 228 Comment Status D Comment Type E Martin. David Nortel Networks Add reference to c30 local attribute. Comment Type E Comment Status D SuggestedRemedy Add references to c30 attributes. Add "When this event is generated by the local DTE and if Clause 30 is present, this maps to 30.11.1.1.39." SuggestedRemedy Proposed Response Response Status W Add "When this event is generated by the local DTE and if Clause 30 is present, this maps to 30.11.1.1.37. When this event is received from the remote DTE and if Clause 30 is PROPOSED ACCEPT. present, this maps to 30.11.1.1.43." C/ 57 SC 57.5.3.3 P233 L 42 # 230 Proposed Response Response Status W Martin, David Nortel Networks PROPOSED ACCEPT. Comment Type Comment Status D E Incorrect reference. SuggestedRemedy Change "this maps to 30.11.1.1.38" to "this maps to 30.11.1.1.39" Proposed Response Response Status W PROPOSED ACCEPT.

P802.3ah Draft 3.1 Comments C/ 57 SC 57.5.3.3 P 233 L53 # 231 C/ 57 SC 57.5.3.3 Martin, David Nortel Networks Martin. David Comment Type E Comment Status D Comment Type Е Add reference to c30 local attribute. Incorrect reference. SuggestedRemedy SuggestedRemedy Change "this maps to 30.11.1.1.38" to "this maps to 30.11.1.1.39" Add "When this event is generated by the local DTE and if Clause 30 is present, this maps to 30.11.1.1.39." Proposed Response Response Status W Proposed Response PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 57 SC 57.5.3.3 P 234 # 234 L11 C/ 57 SC 57.5.3.4 Martin, David Nortel Networks Martin, David Comment Type Comment Status D E Comment Type Е Add references to c30 attributes. Add reference to c30 local attribute. SuggestedRemedy SuggestedRemedy Add "When this event is generated by the local DTE and if Clause 30 is present, this maps Add "When this event is generated by the local DTE and if Clause 30 is present, this maps to 30.11.1.1.39. When this event is received from the remote DTE and if Clause 30 is to 30.11.1.1.41." present, this maps to 30.11.1.1.44." Proposed Response Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 57 P 234 L5 CI 57 SC 57.5.3.4 SC 57.5.3.3 # 232 Martin, David Martin. David Nortel Networks Comment Type Е Comment Type E Comment Status D Incorrect reference. Add references to c30 attributes. SuggestedRemedy SuggestedRemedy Change "this maps to 30.11.1.1.40" to "this maps to 30.11.1.1.41". Add "When this event is generated by the local DTE and if Clause 30 is present, this maps to 30.11.1.1.39. When this event is received from the remote DTE and if Clause 30 is Proposed Response present, this maps to 30,11,1,1,44." PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. C/ 57 SC 57.5.3.4 Martin. David Comment Type E Incorrect reference. SuggestedRemedy Change "this maps to 30.11.1.1.40" to "this maps to 30.11.1.1.41"

> Proposed Response Response Status W

P234

P 234

P234

P 234

Nortel Networks

Nortel Networks

Nortel Networks

Comment Status D

Response Status W

Comment Status D

Response Status W

Comment Status D

Response Status W

Comment Status D

Nortel Networks

L 8

L 32

L 36

/ 45

233

235

236

237

PROPOSED ACCEPT.

P802.3ah Draft 3.1	Comments
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			1 002.5an D	rait 5.1 Comments			
C/ 57 SC 57.5.3.4 Martin, David	P 234 Nortel Networks	L 51	# 238	C/ 57 SC 57.5.3. Martin, David	5 P 235 Nortel Networ	L 14 rks	# 241
Comment Type E Add references to c30	Comment Status D attributes.			Comment Type E Typo.	Comment Status D		
	is generated by the local DTE ar this event is received from the r 0.11.1.1.45." Response Status W			SuggestedRemedy Change "the an Orga Proposed Response PROPOSED ACCEF	anization Specific Event" to "the <i>Response Status</i> W T.	Organization S	pecific Event"
PROPOSED ACCEPT				C/ 57 SC 57.6.1	P 236	L 9	# 551
CI 57 SC 57.5.3.4	P 234	L 53	# 239	Messenger, John	ADVA Optical	I Network	
Martin, David	Nortel Networks			Comment Type TR	Comment Status D		
Add reference to c30 k SuggestedRemedy Add "When this event to 30.11.1.1.41." Proposed Response PROPOSED ACCEPT	is generated by the local DTE an Response Status W	nd if Clause 3	0 is present, this maps	result, the table show are encoded in the C represented in Figure The "Bits" column is	I in an OAMPDU, but Table 57- vs elements of the OAMPDU in AMPDU. This presentation con 57-12, page 225. confusing and misleading. It do does it assist in working out how	the opposite or onflicts with the (construction of the opposite or	der to that in which th correct) order represent the order c
				SuggestedRemedy			
C/ 57 SC 57.5.3.4 Martin, David	P 235 Nortel Networks	L 3	# 240		olumn. Replace with an "Octets 1" for "Variable Branch".	s" column having	J entries of "2" for
Comment Type E Add references to c30	Comment Status D attributes.				the rows in the table so that the be encoded into the OAMPDU		epresents the earliest
	is generated by the local DTE ar this event is received from the r 0.11.1.1.45." Response Status W			Proposed Response PROPOSED ACCEF	Response Status W		
PROPOSED ACCEPT	•						

CI 57 SC 57.6.2	P 236	L33	# 552	CI 57 SC 57.6.2.	3 P 237	L 42	# 181	
lessenger, John	ADVA Optical	Network		Braga, Aldobino	UNH-IOL			
representing the same object to be encoded ir result, the table shows are encoded in the OAI represented in Figure 5 The "Bits" column is co	Comment Status D ar to the previous tables (57-6 kind of information. The earlie an OAMPDU, but Table 57-1 elements of the OAMPDU in t MPDU. This presentation con i7-13, page 226. nfusing and misleading. It do es it assist in working out how	er tables each rep 4 represents mul he opposite orde flicts with the (co es not properly re	present a single tiple objects. As a r to that in which they rrect) order present the order of	object, I can't help bu SuggestedRemedy	Comment Status D ely describes the format of Varia ut think a table would help make ole Container format when reque <i>Response Status</i> W PT.	e the format clea	rer.	
uggestedRemedy				Cl 57 SC 57.6.2. Braga, Aldobino	3 P 237 UNH-IOL	L 42	# 179	
Remove the "Bits" column. Replace with an "Octets" column having entries of "n" for "Variable Value", "1" for "Variable Width", "2" for "Variable Leaf" and "1" for "Variable Branch".				Comment Type T Comment Status D Clauses 57.6.2.1 - 57.6.2.3 have a lot of redundant information.				
	e rows in the table so that the encoded into the OAMPDU.		resents the earliest	SuggestedRemedy Place all redundant i	nformation in another clause (5	7.6.2.4).		
In the description of the and bits 30:24.	e "Variable Width" field, refer t	o bit 7 and bits 6:	0, instead of bit 31	Proposed Response PROPOSED ACCEF	Response Status W			
Proposed Response PROPOSED ACCEPT.	Response Status W							
SC 57.6.2.2 rraga, Aldobino SC	Р 237 UNH-IOL	L 25	# 180					
	Comment Status D describes the format of Varia ut think a table would help ma							
SuggestedRemedy Please add a "Variable	Container format when reque	sting a Package"	table.					
Proposed Response PROPOSED ACCEPT.	Response Status W	5 0						

Sraga, Aldobino	57.6.2.3	<i>P</i> 237 UNH-IOL	L 42	# 178	C/ 57 Law, David	SC 57.7	Р 241 3Com	L8	# 393	
0	TD Com	ment Status D			Comment		Comment Status D			
possible for o	impression that n ne OAM device to	ew MIB variables are precognize a package		added. If so, isn't it as and another device	The su		otions are not correct for a Ma	ndatory item no	r a predicated	
to recognize t	hat same packag	e with 'Y' variables?			Suggested	Remedy				
attributes with		beginning of the seco This is an issue when pected.			colum	n. A predicated r	tus = M) should only provide t nandatory item (Status = <ite le Support column.</ite 			
The addition of	of new packages	would create a simila	r problem when r	equesting objects.	The er	ntire PICS should	d be checked for this.			
iggestedRemed	ly .				Proposed I	Response	Response Status W			
I see two pos	sible fixes.				PROP	OSED ACCEPT				
	end of package m ackage width (and	arker (and an end of an object width)	object marker)		CI 57	SC 57.7.3.1	P 242	L16	# 164	
		. ,			Braga, Ald		UNH-IOL			
		would be quicker that be used, but a marke			Comment	Туре Е	Comment Status D			
If variable arr		are is the way the area		he following orrer	OFS9	and OFS10 are	the same PICS as those state	ed in RB2 and R	B3	
codes could b		ers is the way the gro	up wants to go, t	he following error	Suggested	Remedy				
0x02					Please	e remove whiche	ver PICS entries you like.			
	Irrent package en Irrent object error					the sake of con remove OFS9 ar	sistency: nd OFS10, please move LIT5	to the Reserved	bits PICS table?	
oposed Respor	nse Resp	onse Status W			lf you i	emove RB2 and	RB3, can you remove the Re erved bits PICS entries into the	eserved bits PIC	S table and	
PROPOSED	ACCEPT IN PRIN	ICIPLE.			Proposed I	Response	Response Status W			
The following	changes will be r	nade:			PROP	OSED ACCEPT	IN PRINCIPLE.			
			to "Table 57-16	- Variable Indications".	Let's remove the Reserved bits PICS table and follow the balance of the suggested rem					
	-0x43 to 0x41-0x End of object ma				CI 57	SC 57.7.3.3	P 244	L11	# 165	
	-0x63 to 0x61-0x				Braga, Ald	obino	UNH-IOL			
5) Add 0x60 "End of package marker" 6) Modify reference in Table 57-14 7) Modify text/references in 57.6.2.1-57.6.2.3			Comment Type E Comment Status D PDU3: reads "64 octet OAMPDUs"							
					Suggested Please		et OAMPDUs" to "OAMPDUs	minFrameSize	in length"	
					Proposed I	Response OSED ACCEPT	Response Status W			

			P802.3ah	Draft 3.1 Comments			
C/ 57 SC 57.7.3.4 Braga, Aldobino	P 246 UNH-IOL	L 23	# 166	C/ 57 SC 57.7.4 Braga, Aldobino	P 249 UNH-IOL	L 13	# 168
Comment Type E There is no shall assoc SuggestedRemedy Please remove PICS er	Comment Status D iated with this statement. htry LIT6.				Comment Status D d be labeled "Errored Frame rences for ET2 and ET3 are re .5.3.2)		
Proposed Response	Response Status W			SuggestedRemedy			
PROPOSED ACCEPT.				Change the Label for I Swap the subclause re	ET2. eferences for ET2 and ET3.		
C/ 57 SC 57.7.3.5 Braga, Aldobino	P 247 UNH-IOL	L 6	# 167		trouble, Swap ET2 and ET3. Period Event TLV in the docu		Event TLV comes
Comment Type E All the PICS entries in t statement.	Comment Status D his table have been replaced w	ith an all enco	ompassing shall	Proposed Response PROPOSED ACCEPT	Response Status W		
SuggestedRemedy Replace RIT1 with: RIT1 Remote Informat TLV from remote OAM	tion TLV 57.5.2.2 Copied fror peer.	n last receive	d Local Information	Cl 57 SC 57.7.4 Martin, David Comment Type E Incorrect event name.	P 249 Nortel Networ Comment Status D	L 19 rks	# 243
And delete RIT2 - RIT8 Proposed Response PROPOSED ACCEPT.	Response Status W			SuggestedRemedy	ne Event " to "Errored Frame F Response Status W	Period Event "	
C/ 57 SC 57.7.4 Martin, David	P 249 Nortel Networks	L 12	# 242	PROPOSED ACCEPT	· ·		
Comment Type E Incorrect event name.	Comment Status D			<i>Cl</i> 57 <i>SC</i> 57.7.5 Braga, Aldobino	P 250 UNH-IOL	L 19	# 169
SuggestedRemedy		F (1)		Comment Type E VAR4 Label needs to I	Comment Status D be more specific		
Change "Errored Frame Proposed Response PROPOSED ACCEPT.	e Event Period" to "Errored Fra Response Status W	ne Event"		SuggestedRemedy Please change to: "Variable Container sti	ructure" to "Variable Containe	r structure for an	attribute"
				Proposed Response PROPOSED ACCEPT	Response Status W		

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<i>Cl</i> 57 <i>SC</i> 57.7.6 Braga, Aldobino	<i>Р</i> 250 UNH-IOL	L 46	# 170	CI 57 SC 57 Braga, Aldobino	.7.6	Р 250 UNH-IOL	L 53	# 172
	Comment Status D f two bits spaces within the	Table 57-3.			nformation TL	omment Status D .V type values for Table	e 57-6 have no F	PICS entries:
	bit space it refers to and add s per another comment remo			SuggestedRemedy Reserved Inform	nation TLV ty	pes		
Proposed Response PROPOSED ACCEPT IN	Response Status W N PRINCIPLE.					D Table 57-6 not to l le 57-6 not to be sent		
	Reserved bits PICS table wi prporated in the respective ta		nd the PICS entries for	Proposed Response PROPOSED AC		sponse Status W		
	s bit 0 and slides the other bi			Cl 57 SC 57 Braga, Aldobino	.7.6	Р 250 UNH-IOL	L 53	# 174
<i>Cl</i> 57 <i>SC</i> 57.7.6 Braga, Aldobino	<i>Р</i> 250 UNH-IOL	L 53	# 173	Comment Type	E Co	omment Status D		
Comment Type E	Comment Status D nt TLV type values for Table	57-12 have no [PICS entries:	The Reserved \ Table 57-16: 00		type values for Table 5 3F, 44-5F, 64-7F	57-16 have no Pl	ICS entries:
Table 57-12: 05-FD, FF		57-12 Have no i	ico entiles.	SuggestedRemedy				
SuggestedRemedy				Reserved Varia	ole Error type	values		
Reserved Link Event TL	V types					ble 57-16 not to be se 1F Table 57-16 not t		
	5-0xFD Table 57-12 not to F Table 57-12 not to be se			RIT14 Type va RIT15 Type va	lues 0x25-0x lues 0x44-0x	3F Table 57-16 not t 5F Table 57-16 not t	o be sent o be sent	
Proposed Response	Response Status W					7F Table 57-16 not t	o be sent	
PROPOSED ACCEPT.				Proposed Response PROPOSED AC		sponse Status W		
CI 57 SC 57.7.6	P 250	L 53	# 171		, o Ei 1.			
Braga, Aldobino	UNH-IOL							
Comment Type E The Reserved Command Table 57-5: 00, 03-FF	Comment Status D d values for Table 57-5 have	e no PICS entrie	5:					
SuggestedRemedy Reserved Loopback com	nmands							
	0x00 Table 57-5 not to be 0x03-0xFF Table 57-5 nc							
Proposed Response PROPOSED ACCEPT.	Response Status W							

Comments

th, Brad Intel Inter Intel Inter Int
Sentence is very disjointed and needs better clarification. gestedRemedy Change second sentence of paragraph to read: A 100BASE-LX10 and 100BASE-BX10 PHY (physical layer) device is a combination of a 100BASE-X PCS and PMA with the respective PMD. If the optional OAM is being used, the 100BASE-X PCS and PMA in Clause 66 shall be integrated; otherwise, the Clause 24 100BASE-X PCS and PMA shall be integrated. The management functions may be accessible through the optional Management Interface. <i>mosed Response</i> <i>Response Status</i> A CCEPT IN PRINCIPLE. As this is a PMD clause, a shall is not appropriate in this context. The second sentence will be changed to: A PMD is connected to the 100BASE-X PMA of Clause 24 or the 100BASE-X PMA of 66.1, and to the medium through the MDI. A PMD is optionally combined with the management
gestedRemedy Change second sentence of paragraph to read: A 100BASE-LX10 and 100BASE-BX10 PHY (physical layer) device is a combination of a 100BASE-X PCS and PMA with the respective PMD. If the optional OAM is being used, the 100BASE-X PCS and PMA in Clause 66 shall be integrated; otherwise, the Clause 24 100BASE-X PCS and PMA shall be integrated. The management functions may be accessible through the optional Management Interface. <i>Dosed Response</i> <i>Response Status</i> ACCEPT IN PRINCIPLE. As this is a PMD clause, a shall is not appropriate in this context. The second sentence will be changed to: A PMD is connected to the 100BASE-X PMA of Clause 24 or the 100BASE-X PMA of 66.1, and to the medium through the MDI. A PMD is optionally combined with the management
Change second sentence of paragraph to read: A 100BASE-LX10 and 100BASE-BX10 PHY (physical layer) device is a combination of a 100BASE-X PCS and PMA with the respective PMD. If the optional OAM is being used, the 100BASE-X PCS and PMA in Clause 66 shall be integrated; otherwise, the Clause 24 100BASE-X PCS and PMA shall be integrated. The management functions may be accessible through the optional Management Interface. <i>Dosed Response</i> <i>Response Status</i> ACCEPT IN PRINCIPLE. As this is a PMD clause, a shall is not appropriate in this context. The second sentence will be changed to: A PMD is connected to the 100BASE-X PMA of Clause 24 or the 100BASE-X PMA of 66.1, and to the medium through the MDI. A PMD is optionally combined with the management
ACCEPT IN PRINCIPLE. As this is a PMD clause, a shall is not appropriate in this context. The second sentence will be changed to: A PMD is connected to the 100BASE-X PMA of Clause 24 or the 100BASE-X PMA of 66.1, and to the medium through the MDI. A PMD is optionally combined with the management
As this is a PMD clause, a shall is not appropriate in this context. The second sentence will be changed to: A PMD is connected to the 100BASE-X PMA of Clause 24 or the 100BASE-X PMA of 66.1, and to the medium through the MDI. A PMD is optionally combined with the management
A PMD is connected to the 100BASE-X PMA of Clause 24 or the 100BASE-X PMA of 66.1, and to the medium through the MDI. A PMD is optionally combined with the management
or by other means. 8 SC 58.1 P252 L8 # 558
h, Brad Intel
nment Type TR Comment Status D
The response for D3.0 comments #780, 786 and 787 cause me some concern. The response states that "As this is a PMD clause, a shall is not appropriate in this context." Considering all other 100BASE-X and 1000BASE-X PMDs use shalls in this context, the response is very misleading. In looking through D3.1, I have found no compliance statement related to the port types associated with the PMD. There is nothing within this draft that mandates which PCS/PMA shall be used by the Clause 58, 59 and 60 PMDs to create a compliant port type.
gestedRemedy
Reconsider the responses to comments #780, 786 and 787 in D3.0.
posed Response Response Status W PROPOSED REJECT.
Each one of the clauses 58, 59, and 60, defines only the PMD not a complete port and
cannot make requirements outside the PMD.

CI 58	SC 58.1	0.3.2	P 2	87	L11	# 394
Law, David			3Com	1		
Comment 7	Гуре Е	Com	ment Status	D		
The su	pport colun	nn options do	esn't look co	rect for the	oredicated	optional items.

gestedRemedy

Shouldn't the support column be 'Yes [] No [] N/A []' for predicated optional items as it is for tem FO4 (see 58.10.3.7), if in this case for example LX is not implemented the answer should be N/A and not Yes or No.

Check this throughout the PICS.

osed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change support column to 'Yes [] No [] N/A []' for LX3, BD3, and BU3.

CI 58	SC 58.10.3.5	P 288	L 6	# 334
Dawe, Pier	rs	Agilent		
Comment	Type TR	Comment Status D		
Consis OM6 in OM7 in fourth-	order Bessel-The	specified filter 8.7.8 and ANSI/TIA/EIA-526-	01	
Suggestea	lRemedy			
	e PICS entries ir	1 59 and 60 to 'With specified	l filter'.	

Option 2: change PICS entries in 58 and 60 to:

Per ANSI/TIA/EIA-526-4A using patch cable per {58.7|59.7} and fourth-order Bessel-Thomson receiver

Option 2: change all three clauses' PICS entries to:

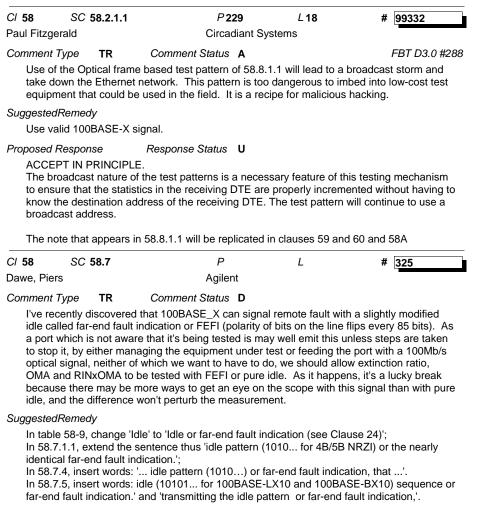
Per ANSI/TIA/EIA-526-4A with test pattern and fourth-order Bessel-Thomson receiver

Response Status W osed Response PROPOSED ACCEPT IN PRINCIPLE.

Change all three clauses' PICS entries to: 'Per ANSI/TIA/EIA-526-4A with test pattern and fourth-order Bessel-Thomson receiver"

SC 58.10.3.5

Make consistent across optics clauses.



Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 58 Jönsson, l	SC 58.7 Jlf	P 262 Ericsson	L 4	# 252
	<i>Type</i> E to Clauses 58, 0	Comment Status D Clause 59, and Clause 60"		
Suggestee Chane		lauses 58, 59, and 60."		
'	<i>Response</i> POSED ACCEPT	Response Status W		
Check	with style guide	. Make consistent accross op	tics clauses.	
CI 58	SC 58.7.1	P 266	L15	# 362
Dawe, Pie	rs	Agilent		

Comment Type T Comment Status D

There was some issue with how we account for idles in this table.

SuggestedRemedy

Check again and change any of the following as necessary: '13' in table 58-10, '38' in table 58-11, footnote to table 58-11.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Will be changed based on further input. See #253.

Cl 58	SC 58.7.7.3	P 2	69	L 37	#	664
Dawe, Pie	ers	Agile	nt			
	<i>Type</i> E tion crossed out i	Comment Status n change diff file	D			
Suggeste Also S	<i>dRemedy</i> 58.7.11.2 eqn (58	-13)				
'	Response POSED ACCEPT	Response Status IN PRINCIPLE.	w			
Tho	quation is not are	esed out. It is an und	lorling th	at shows that this	e oquation	has been

The equation is not crossed out. It is an underline that shows that this equation has been changed from D3.0.

					P80	J2.3an Dra
C/ 58	SC Table 5	8-11	P 229	L 12	# 99333	
Paul Fitzge	erald		Circadian	t Systems		
take do	the Optical fra own the Ethern	me based tes et network.	his pattern is		FBT D3. a broadcast storm a imbed into low-cost bus hacking.	and
Suggested					g.	
	Response PT IN PRINCIF omment 288		e Status U			
C/ 58 Jönsson, U	SC Table 5	8-11	P 265 Ericsson	L 37	# 253	
vanilla	ing that the ne	ar minimum i ESD, we eith	er have to ad		ets is the number of this field so that it ac	
Suggested Chang	<i>Remedy</i> e the number c	of octets to 38	or remove th	e footnote		
Proposed I PROP	Response OSED ACCEP	'	e Status W PLE.			
Will be	changed base	d on further i	nput. See #36	62.		
C/ 58 Paul Fitzge	SC Table 5 erald	8-5	P 224 Circadian	L 16 t Systems	# 99334	
Comment [·] The TE	<i>Type</i> TR DP test is not a		nt Status R spread suppo	ort.	TDP D3.	0 #289
S <i>uggested</i> Chang fiber.	2	nalty Test wit	n a minimum :	specified amount	of dispersion in the t	est
Proposed I REJEC	CT.	Respons	e Status U			
See co	omment 296					

C/ 59 Booth, Bra	SC 59.1	P 256 Intel	L 7	# 99335
Comment	Type TR	Comment Status A		BB D3.0 #786
Secor	d sentence of se	econd paragraph is very disjoin	ted.	

SuggestedRemedy

Change second sentence of paragraph to read:

A 1000BASE-LX10 and 1000BASE-BX10 PHY (physical layer) device is a combination of a 1000BASE-X PCS and PMA with the respective PMD. If the optional OAM is being used, the 1000BASE-X PCS and PMA in Clause 66 shall be integrated; otherwise, the Clause 36 1000BASE-X PCS and PMA shall be integrated. The management functions may be accessible through the optional Management Interface.

Proposed Response Response Status U

ACCEPT IN PRINCIPLE.

As this is a PMD clause, a shall is not appropriate in this context. The second sentence will be changed to:

A PMD is connected to the 1000BASE-X PMA of Clause 36, and to the medium through the MDI. A PMD is optionally combined with the management functions that may be accessible through the management interface defined in Clause 22 or by other means.

C/ 59	SC 59.1.2	P 291	L 10	# 665
Dawe, Pie	rs	Agilent		
Commont		Commont Status D		

Comment Type E Comment Status D

"Because of the way the file was recovered, we have some extra blank lines which are throwing up change bars"

SuggestedRemedy

"In many cases in this clause, the anchor for the figure is on a line by itself. Can delete the paragraph-break sign at the end of the previous line to bring it back."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Deferred to Chief editor for resolution prior to publication.

CI 59	SC 59.1.2	P 291	L11	# 363
Dawe, Pier	ſS	Agilent		
Comment Empty		Comment Status D		
Suggested	Remedy			

Remove unwanted line feed with care. And several more, associated with figures.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Deferred to Chief editor for resolution prior to publication.

C/ 59 SC 59.1.5.3 Dawe, Piers	Р 292 Agilent	L3	# 361	C/ 59 SC 59.7.4 Dawe, Piers	P 306 Agilent	L 6	# 666
Comment Type E This needs updating: 'e	Comment Status D error ratio objective'.			Comment Type E Two spaces in 'idles	Comment Status D		
SuggestedRemedy Change it to 'specified	bit error ratio'.			SuggestedRemedy ?			
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response PROPOSED ACCE	Response Status W		
Cl 59 SC 59.10.3.5 Dawe, Piers	5 P 318 Agilent	L 23	# 332	Cl 59 SC Table Paul Fitzgerald	59-13 P 269 Circadiant Sy	L 12 ystems	# 99336
say 'Average optical po SuggestedRemedy	Comment Status D 5 OM4 says 'Optical power' w ower'. ge optical power' to avoid cor			to a broadcast storm entered. This patter	Comment Status A pattern test frame Optical frame and take down the Ethernet no is too dangerous to imbed int is a recipe for malicious hacking	etwork when bro to low-cost test e	adcast mode is
Proposed Response PROPOSED ACCEPT	Response Status W				1000BASE-X signal. <i>Response Status</i> U PLE.		
C/ 59 SC 59.7.1 Dawe, Piers	P 302 Agilent	L 5	# 326	See comment 288	59-5 P 263	L 19	# 99337
Comment Type T Are we being too lenier mask measurement?	Comment Status D ent in saying that any valid 8B	/10B encoded sig	gnal will do for eye	Paul Fitzgerald Comment Type TR	Circadiant Sy Comment Status R	ystems	TDP D3.0 #29
SuggestedRemedy Consider changing to r	random pattern test frame.			SuggestedRemedy	achieving widespread support.		
Proposed Response PROPOSED REJECT.	Response Status W . It is believed that the curren	t text is preferred	J.	fiber.	enalty Test with a minimum spe	ecified amount of	dispersion in the test
C/ 59 SC 59.7.11 Dawe, Piers	Р 307 Agilent	L 43	# 327	Proposed Response REJECT. See 296	Response Status U		
Comment Type E ref *58.7.10*.	Comment Status D						
SuggestedRemedy Make the link and clea	n up ref * *						
Proposed Response PROPOSED ACCEPT	Response Status W						

	9-8 P 266	L 27	# 99338	C/ 60	SC 60.1.5.4	P 325	L13	# 412
Paul Fitzgerald	Circadiant Sys	tems		Grow, Robe		Intel		
Comment Type TR The TDP test is not an SuggestedRemedy	Comment Status R chieving widespread support.		TDP D3.0 #293	most co	e incorrect usage	Comment Status D e of "error rate" still exists. in this context that would		
,	nalty Test with a minimum spec	ified amount of o	lispersion in the test	60.1.1 i Suggestedl				
Proposed Response REJECT. See 289	Response Status U			Proposed F		error ratio" per my accepte Response Status W	d D3.0 comment #	528.
C/ 60 SC 60.1 Booth, Brad <td>P 286 Intel</td> <td>L 9</td> <td># 99339</td> <td><i>CI</i> 60 Dawe, Piers</td> <td>SC 60.10.2.2</td> <td>P 347 Agilent</td> <td>L 4</td> <td># 365</td>	P 286 Intel	L 9	# 99339	<i>CI</i> 60 Dawe, Piers	SC 60.10.2.2	P 347 Agilent	L 4	# 365
Comment Type TR Last sentence of first	Comment Status A paragraph seems disjointed.		BB D3.0 #787	Comment 7 Please	<i>ype</i> E make the table f	Comment Status D		
SuggestedRemedy				Suggestedl	Remedy			
A 1000BASE-PX10-D combination of a 1000 OAM is being used, th otherwise, the Clause	ence of paragraph to read: and 1000BASE-PX10-U PHY 0BASE-X PCS and PMA with th 1000BASE-X PCS and PMA 36 1000BASE-X PCS and PM agement functions may be acce	e respective PM in Clause 66 sh A as modified by	ID. If the optional all be integrated; / 65.3 shall be		OSED ACCEPT.	Response Status W		
Management Interfact	e.			Cl 60 Dawe, Piers	SC 60.10.4.3	P 348 Agilent	L 50	# 366
Proposed Response ACCEPT IN PRINCIP	Response Status U LE.			Comment 7 Orphan	51	Comment Status D		
	se, a shall is not appropriate in			Suggestedl Maybe		line following it?		
The second sentence A 1000BASE-PX-U P	MD or a 1000BASE-PX-D PMD	is connected to	the appropriate					
The second sentence A 1000BASE-PX-U P 1000BASE-X PMA of combined with the ma	will be changed to: MD or a 1000BASE-PX-D PMD Clause 66, and to the medium magement functions that may b e defined in Clause 22 or by oth	through the MD e accessible thr	. A PMD is optionally	Proposed F PROPC	Response DSED ACCEPT.	Response Status W		
The second sentence A 1000BASE-PX-U P 1000BASE-X PMA of combined with the ma	MD or a 1000BASE-PX-D PMD Clause 66, and to the medium magement functions that may b e defined in Clause 22 or by oth	through the MD e accessible thr	. A PMD is optionally	•	SC 60.10.4.6	Response Status W P 350 Agilent	L 24	# <u>330</u>
The second sentence A 1000BASE-PX-U P 1000BASE-X PMA of combined with the ma management interface C/ 60 SC 60.1.5.4	MD or a 1000BASE-PX-D PMD Clause 66, and to the medium inagement functions that may b e defined in Clause 22 or by oth P325 Agilent Comment Status D	through the MD e accessible thr er means.	. A PMD is optionally ough the	PROPO CI 60 Dawe, Piers Comment 1	DSED ACCEPT. SC 60.10.4.6 S Type T	P 350	L 24	# <u>330</u>
The second sentence A 1000BASE-PX-U P 1000BASE-X PMA of combined with the ma management interface <i>CI</i> 60 SC 60.1.5.4 Dawe, Piers <i>Comment Type</i> E	MD or a 1000BASE-PX-D PMD Clause 66, and to the medium inagement functions that may b e defined in Clause 22 or by oth P325 Agilent Comment Status D 'error rate objective'.	through the MD e accessible thr er means.	. A PMD is optionally ough the	PROPO C/ 60 Dawe, Piers Comment 7 OM1 su Suggested	SC 60.10.4.6 SC 60.10.4.6 S Type T ubclause entry ha	P 350 Agilent Comment Status D	L 24	# <u>330</u>

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

Page 94 of 146 C/ 60 SC 60.10.4.6

C/ 60 SC 60.10.4.6 Dawe, Piers	P 350 Agilent	L 26	# 329	Cl 60 SC Dawe, Piers	60.7.4	P 337 Agilent	L 21	# 333
Comment Type TR PICS OM2 Value/Comr	Comment Status D nent needs revision to keep i	in step with simp	lified text in 60.7.2.	Comment Type This commer		Comment Status D to 59 and 60.		
Can be the same as in SuggestedRemedy Shorten to:	59.10.3.5. Sorry to make thi nder modulated conditions <i>Response Status</i> W			minimal back 'Measured us has a slightly unnecessary should menti not just PICS	reflection sing the m simpler m to mentio on the Bes . My apo	5 OM5 says 'Per ANSI/TIA/EIA s and fourth-order Bessel-Tho ethods specified in ANSI/TIA/I neasurement description (delik n the patch cable again, as it h ssel-Thomson receiver in clau logies if we went over all this l	mson receiver', EIA-526-4A-199 perately) so its F nas its own PIC se and PICS, ju	, 60.10.4.6 OM4 says 97 [B13]'. Clause 58 PICS differs. It seems S. Editorially, we
				SuggestedReme	dy			
C/ 60 SC 60.7.13.1. Dawe, Piers Comment Type E Empty line	2 P 339 Agilent Comment Status D	L 40	# <mark>328</mark>	'The test rece waveform me Use the follo Per ANSI/TIA	eiver has t easuremer wing for Pl	into 58.7.4, 59.7.4, 60.7.4: he frequency response as spe tt.' ICS in both 59.10.3.5 OM5 an 4A with minimal back reflectio	d 60.10.4.6 OM	4:
SuggestedRemedy Delete any redundant li	ne feed.			Per ANSI/TIA	/EIA-526-	wing for PICS in both 59.10.3 4A with minimal back reflection	ins	10.4.6 OM4:
Proposed Response PROPOSED ACCEPT.	Response Status W			The measure	ment exti	by reference: change contents action ratio procedure for 1000 they will stay the same.		defined in 58.7.7.
C/ 60 SC 60.7.3 Dawe, Piers	P 337 Agilent	L 16	# 331		ACCEPT	Response Status W IN PRINCIPLE. Will decide a ce; 58.7.7 should be 58.7.4	t meeting. Edito	or prefers option 1
Comment Type TR	Comment Status D							
emphasis from the mea	eeds updating as we have do surement to the conformanc	e. It looks like w		Cl 60 SC Dawe, Piers	60.7.4	P 337 Agilent	L 24	# 667
SuggestedRemedy	use it isn't clearly defined in 1	1.4.		Comment Type Two spaces	E n 'idles. T	Comment Status D		
This measurement may	measured using the methods be made with the node tran			SuggestedReme ?	dy			
	et specifications according to t may be made with the port Per TIA/EIA-455-95			Proposed Respo PROPOSED		Response Status W		
Proposed Response	Response Status W							

			F 002.3an i
C/ 60 SC 60.8.1		L 8	# 99340
Paul Fitzgerald	Circadiant Sy	stems	
Comment Type TR Requires a test patte	Comment Status A		FBT D3.0 #300
SuggestedRemedy Use valid or live 100	0BASE-X traffic for all stressed	receiver conforn	nance tests in
Proposed Response ACCEPT IN PRINCI Replace last senten	Response Status U PLE. ce with last sentence of 59.9.14	with the appropr	riate references
Cl 60 SC 60.9.3 Dawe, Piers	P 345 Agilent	L 18	# 364
Comment Type E Empty line?	Comment Status D		
SuggestedRemedy If so, remove unwan	ted line feed. Also at line 52?		
Proposed Response PROPOSED ACCEI	Response Status W		
C/ 60 SC Table	60-5 P 293	L19	# 99341
Paul Fitzgerald	Circadiant Sy	stems	
Comment Type TR The TDP test is not a	Comment Status R achieving widespread support.		TDP D3.0 #296
SuggestedRemedy	0 1 11		
,	enalty Test with a minimum spe	cified amount of	dispersion in the test
Proposed Response	Response Status U		
were substituted by has been under dev	based path penalty test and is t path pealty, then additional test elopment for ~3 years in 10G ar echanism would need consider	s would have to had is accepted in	be adderd. TDP testing this community. An

alternative testing mechanism would need considerable scrutiny before it could be implemented.

P802.3ah Draft 3.1 Comments

CI 60	SC	Table 60-8	P 2	96	L 31	#	99342
Paul Fitzger	ald		Circad	diant Systems	3		
Comment T The TD		TR t is not achie	Comment Status eving widespread su				TDP D3.0 #298
SuggestedF Change fiber.			y Test with a minim	um specified	amount of disp	persio	n in the test
Proposed R REJEC See # 2	т.	nse	Response Status	U			
C/ 61	SC	61	Р		L	#	370
Dawe, Piers	6		Agiler	nt			
Comment T	ype	TR	Comment Status	D			
10PAS that doe 10G MI	S-TS I esn't n DIO cl Furth	PHYs conne nean it's the ause 45, bu	the draft is there a sect to. Even if the e case: one would n t they do. Or, there use 22, can I run it a	ditors believe ot obviously e could be ne	e that it's 'obvio expect low-spe w PHY-specific	ed PH RSs	clause 22, IYs to use the for these
with a s electric	er the ingle al {linł	situation is sentence for	, explain it at appro r the end of 56.1.2 ns} use the reconc	2. Correct ar	nd better my su	iggest	ion: 'EFM

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. To be discussed with comment #410.

Subclause 61.1.4.1.2 already says:

"The 10PASS-TS and 2BASE-TL PCS is specified to work with a MAC operating at 100 Mb/s using the MII as defined in Clause 22." Therefore there is no need to add text to Clause 61.

Add following sentences to the end of 56.1.2.2: "EFM Copper links use the MII of Clause 22 operating at 100 Mb/s. This is described in 61.1.4.1.2."

C/ 61 SC 61 P 353 L 1 # 20 Beck, Michael Alcatel Bell nv Alcatel Sell nv H 20 H	C/ 61SC 61.1.1P 354L 44# 508Schneiderheinze, BurkartInfineon Technologies
Comment Type E Comment Status D Clause title is inaccurate.	Comment Type E Comment Status D term 3.4.1. is not a register, it is a bit
SuggestedRemedy Change Clause title to: 61. Physical Coding Sublayer (PCS), Transmission Convergence (TC) sublayer, a common specifications, type 10PASS-TS and type 2BASE-TL Proposed Response Response Status W	SuggestedRemedy change text to 'parts of register 3.4' Proposed Response Response Status W PROPOSED ACCEPT.
PROPOSED ACCEPT. C/ 61 SC 61.1 P354 L 20 # 37	C/ 61 SC 61.1.1 P 354 L 45 # 579 Cravens, George Mindspeed
Beili, Edward Actelis Networks Comment Type T	Comment Type E Comment Status D Register 3.73 also applies.
The draft text calls the CO - "centralized distribution equipment" and CPE - "line termination equipment owned or controlled by a subscriber ". In the xDSL world (s 993.1 and 995.1 for example) the CO side is called Line Termination (LT) and the is called Network Termination (NT). In addition in some cases the CPE may be or controlled by an operator (carrier). <i>SuggestedRemedy</i> Replace lines 20-21 with: "between centralized line termination equipment, such as a Central Office (CO), a network termination equipment at the remote customer premises (Customer Prem Equipment, CPE)." <i>Proposed Response</i> <i>Response Status</i> W	PE side ed and to: " 3.60 through 3.73 specified in" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change " 3.60 through 3.72 specified in" to: " 3.60 through 3.73 specified in"
PROPOSED REJECT.	C/ 61 SC 61.1.1. P354 L45 # 445
The existing text was written to cover the case of a completely privately owned Ef network as well as a typical operator/subscriber deployment.	Schneidemeinze, burkart inineon reciniologies
The term "network termination equipment", often used in xDSL related litterature, appropriate for our use. The CPE-side modern may include a MAC bridge which o to other Ethernet PHYs (e.g., 10/100BASE-T). In that case, the Ethernet network to both sides of the CPE, so it is not terminated at the CPE. This is different from ATM deployments, in which the CPE indeed terminates the ATM network and pas payload on to the subscriber.	inects tends SuggestedRemedy ditional change 3.72 to 3.73 (or accordingly, if any registers are added or removed during the

Page 97 of 146 C/ 61 SC 61.1.1.

			P802.3ah D	raft 3.1 Comments				
C/ 61 SC 61.1.2 Barry, O'Mahony	P 354 Intel	L 54	# 420	C/ 61 SC 61.1 Booth, Brad	.4.1.1	P 357 Intel	L 6	# 559
Comment Type E Unclear what "without SuggestedRemedy Delete these two word				compliant point. T the management i		worded. MII is nt about compl ake no complia	iance with that p ance statement a	
Proposed Response PROPOSED REJECT This exact wording wasubclause 1.4.135.	Response Status W T. as chosen for consistency with th	e definition in	IEEE Std 802.3-2002		2BASE-TL may mak at 10PASS-TS and 2			ause 22. It is highly ce utilize the MDIO
C/ 61 SC 61.1.3 Barry, O'Mahony Comment Type T	P 356 Intel Comment Status D	L 30	# 421	Proposed Response PROPOSED ACC	Response S EPT IN PRINCIPLE vith comment #580			
Figure 61-1 reference reference ANSI T1.42 SuggestedRemedy	es T1.424/Trial-Use, while Clause 4. a Clause 62 by deleting words "The Response Status W		-	Change the text to "10PASS-TS and defined in Clause MII management i	o read: 2BASE-TL specify t 22 (see also 61.1.5	he optional us 2). 10PASS-T ed in 22.2.4. T	S and 2BASE-T he use of the MI	L do not unitilize the DIO interface specified
PROPOSED ACCEP	,			C/ 61 SC 61.1 Cravens, George		P 357 Mindspeed	L 7	# 580
Cl 61 SC 61.1.4.1 Barry, O'Mahony Comment Type E	P 356 Intel Comment Status D	L 30	# 422	Comment Type T Optional support f	Comment S	Status D anagement inte		be mentioned since it is rted.
hyphen between "data SuggestedRemedy remove it.	a" and "interface" unnecessary.			0	f the sentence from			
Proposed Response PROPOSED ACCEP	Response Status W T.			in Clause 45." Proposed Response	n 22.2.4, but may o <i>Response</i> S EPT IN PRINCIPLE	tatus W	the manageme	nt interface described

PROPOSED ACCEPT IN PRINCIP See resolution of comment #559.

C/ 61	SC 61.1.4.1.1.	P 357

Schneiderheinze, Burkart

Comment Type T Comment Status D

not clear whether and how 10PassTS and 2BASE-TL utilizes another management interface

SuggestedRemedy

add a note that management interface according to clause 45.1 (extensions to MDIO with MMD concept) will be used instead

Infineon Technologies

L7

509

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. See resolution of comment #559.

C/ 61	SC 61.1.4.1.2	P 357	L15	# 410
Grow, Robe	rt	Intel		

Comment Type TR Comment Status D

I commend those responsible for inclusion of this note in Clause 61 for their honesty. It is though unconcionable if any member of the Task Force voted to recirculate this document if they knew it was incomplete in implementing changes required by D3.0 comment resolution. A sponsor ballot recirculation is not the time to be asking the group to help fix a problem.

I agree with the editor's note suggestion that the current draft is inconsistent with Clause 22, at a minimum the first paragraph of 22.2.2.9.

SuggestedRemedy

I would recommend adding a subclause to 61 (and any other new clause if required) that describes the divergence from the MII specification. Specifically state that unlike other PHY layers (e.g., 100BASE-T), CRS is not always deasserted when both the receive and transmit medium are idle. CRS may be asserted by the PHY to reduce the effective MAC rate to that of the PHY.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. To be discussed with comment #370.

Remove the Editor's Note from 61.1.4.1.2.

In 61.1.4.1.1 change:

"10PASS-TS and 2BASE-TL specify the use of the MII electrical interface as defined in Clause 22. 10PASS-TS and 2BASE-TL do not utilize the MII manangement interface as described in 22.2.4."

to:

"10PASS-TS and 2BASE-TL specify the use of the MII electrical interface as defined in Clause 22 operating at 100 Mb/s. Notwithstanding the specifications in 22.2.2.9, CRS may be asserted by a full-duplex EFM Copper PHY to reduce the effective MAC rate to that of the PHY.

10PASS-TS and 2BASE-TL do not utilize the MII manangement interface as described in 22.2.4. It is highly recommended that 10PASS-TS and 2BASE-TL utilize the MDIO management interface as specified Clause 45."

Add following sentence to 61.2.1.2.1:

"CRS is forced to the value of the carrierSense variable (see 61.2.1.3.2)"

P 357	L 20	# 556	C/ 61	SC 6	61.1.5.3	.1
Intel			Cravens,	George		
Status D			Comment	Туре	Е	Commen
C uses carrierSe	ense which is ma	apped from CRS (see		e are thre ssed as t		s discussed, t :).
			Suggeste	dRemedy	/	
	nse variable (ma long as CRS is a	pped from the MII sserted.		0		entence from: wo MMDs are
Status W			to: "	accume	that or	NV three MMF

Comment Type TR Comment

SC 61.1.4.1.2

MAC does not check CRS. The MAC note in 22.2.1.3.3).

SuggestedRemedy

C/ 61

Grow, Robert

Prior to transmission, the MAC checks signal CRS), and will not transmit and

Proposed Response Response S PROPOSED ACCEPT.

4.1.4 P357	L 54	#	510
art Infineon	Technologies		
)		
(indicator bits??) to the abb	previation list		
•	V		
5.3 P 358	L 51	#	511
art Infineon	Technologies		
Comment Status)		
5	er, the PME Avail	must only allow	w the
same PME may not be list	ed in different PN	IE avail. registe	er at line start
	.,		
	art Infineon <i>Comment Status</i> C t clear (indicator bits??) to the abb <i>Response Status</i> V EPT. 5.3 <i>P</i> 358 art Infineon <i>Comment Status</i> C 5.2.3.19 PME Avail. Register I prior enabling the links e same PME may not be lister	art Infineon Technologies Comment Status D t clear (indicator bits??) to the abbreviation list Response Status W EPT. 5.3 P358 L51 art Infineon Technologies Comment Status D 5.2.3.19 PME Avail. Register, the PME Avail I prior enabling the links	art Infineon Technologies Comment Status D t clear (indicator bits??) to the abbreviation list Response Status W EPT. 5.3 P 358 L 51 # art Infineon Technologies Comment Status D 5.2.3.19 PME Avail. Register, the PME Avail must only allow I prior enabling the links e same PME may not be listed in different PME avail. register

PROPOSED ACCEPT IN PRINCIPLE. To be discussed by CuSTF in Clause 45 session.

ent Status D the PCS, TC, and PMA/PMD (shown in Figure 61-3 and **1**: re used: PCS (MMD=3), and TC (MMD=TBD)." to: "... assume that only three MMDs are used: PCS (MMD=3), TC (MMD=6), and PMA/PMD (MMD=1, shown as PME in Figure 61-3)." Proposed Response Response Status W PROPOSED ACCEPT. C/ 61 SC 61.1.5.3.1 P359 L5 # 581 Cravens, George Mindspeed Comment Type E Comment Status D The TC MMD is 6. SuggestedRemedy Change TBD to 6. Proposed Response Response Status W PROPOSED ACCEPT. See also comment #446. C/ 61 SC 61.1.5.3.1. P 359 L 5 # 446 Schneiderheinze, Burkart Infineon Technologies Comment Type E Comment Status D MMD undefined SuggestedRemedy change MMD = TBD to MMD = 6 Proposed Response Response Status W PROPOSED ACCEPT. See also comment #581.

P 359

Mindspeed

L4

583

C/ 61 SC 61.1.5.3.2 Schneiderheinze, Burkart	P 361 Infineon Techr	L 33 nologies	# 512	<i>Cl</i> 61 Beck, Micł	SC 61.10.4.4 hael	P 408 Alcatel Bell nv	L 33	# 203
Comment Type T accdg. to 45.2.3.19 1 PME	Comment Status D	U U		Comment PICS	<i>Type</i> T entries of former	Comment Status D subclause 61.3.12 (now 61.4.8)	seem to be	out-of-date.
SuggestedRemedy add a note that this connec described in 45.2.3.19 befo					or occurrences o	f the verb "shall" in subclause 6 ries HS-8 and HS-9 may becom		
Proposed Response F PROPOSED ACCEPT IN F To be discussed by CuSTF	-			•	Response POSED ACCEPT.	Response Status W		
C/ 61 SC 61.1.5.3.2. Schneiderheinze, Burkart	P 359 Infineon Techr	L 38 nologies	# 447	C/ 61 Cravens, C	SC 61.2.1.1 George	P 363 Mindspeed	L 24	# 584
	Comment Status D				ne variable name	Comment Status D and cross-reference for MII rece	eive during t	ransmit.
SuggestedRemedy change x.3.46 and x.3.47 t	o x.3.62 and x.3.63. This a	appiles also to	Tables 61-1, 61-2, 61-3	Suggested Add th	•	the sentence on line 23 (ends w	ith while the	MAC is transmitting.):
Proposed Response F PROPOSED ACCEPT.	Pesponse Status W			Proposed	e	transmit, Clause 45.2.3.18. <i>Response Status</i> W		
C/ 61 SC 61.1.5.3.3 Schneiderheinze, Burkart	P 361 Infineon Techr	L 49 nologies	# 448	C/ 61 Barry, O'M	SC 61.2.2	P 365	L 39	# 423
Register numbering chang	Comment Status D ed			Comment "PMEI	Туре Е	Comment Status D		
SuggestedRemedy change x.3.48 and x.3.49 t		appiles also to	Tables 61-4, 61-5, 61-6	Suggested				
Proposed Response F PROPOSED ACCEPT.	esponse Status W			Proposed PROP	Response POSED ACCEPT.	Response Status W		
C/ 61 SC 61.1.5.3.3 Schneiderheinze, Burkart	P 362 Infineon Techr	L 44 nologies	# 513	See al	lso comment #60 SC 61.2.2	1 and #449. <i>P</i> 365	L 39	# 601
Comment Type E footnote applies to all 3 tab	Comment Status D			Squire, Ma	att	Hatteras Networl		
SuggestedRemedy put the footnote a to all 3 ta	ables			Comment PMEP	PME			
•	esponse Status W			Suggested PME	dRemedy			
FRUPUSED AUGEPT.					Response POSED ACCEPT. Iso comment #42			

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

Page 101 of 146 *Cl* **61** SC **61.2.2**

0								
C/ 61 SC 61.2.2.	P 365	L 39	# 449	C/ 61 SC 61.2.2		P 369	L 43	# 453
Schneiderheinze, Burkart	Infineon Tech	nologies		Schneiderheinze, Burka	rt	Infineon Tech	inologies	
Comment Type E typo: Change PMEPM	Comment Status D E to PME			Comment Type T (anyQueueNonEmp the description in pa	ty = TRUE) * (n			see state diagram) ar
SuggestedRemedy as described				maxDifferentialDela equivalent: it does r	y bit times witho	out any fragment	being processed	d) are not completely
Proposed Response	Response Status W			SuggestedRemedy				
PROPOSED ACCEPT See also comments #6				Combine (anyQueu transition condition: noFragmentsProces		RUE) * (noFragr	nentProcessed =	= TRUE) to just one
C/ 61 SC 61.2.2.3 Schneiderheinze, Burkart	P 368 Infineon Tech	L 34 nologies	# 450	variable of type boo empty for maxDiffer	lean that indicat entialDelay bit ti	imes at the bit ra	ite of the PMD as	ssociated with that
Comment Type E	Comment Status D	C C		queue. Each fragme TRUE if a timeout o				ie timers.
	on ;-) : change AGGREGATIOI	N to Aggregation	n	FALSE if the timeou				pired
SuggestedRemedy as described				remove variable any change state diagra		oty (page 369, lin	ne 27)	
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response PROPOSED ACCE	,	e Status W		
C/ 61 SC 61.2.2.4.	1 P 369	L 6	# 451	C/ 61 SC 61.2.2	.4.2	P 369	L 43	# 452
chneiderheinze, Burkart	Infineon Tech	nologies		Schneiderheinze, Burka	rt	Infineon Tech	nologies	
Comment Type E	Comment Status D			Comment Type E		nt Status D		
					tiana lua Fua aveca		nd 'oneOueueN	onEmpty' depend on
	d sequence number: The secorrepeated some lines below (li			The transition condi the expiration of tim				
second paragraph are								
second paragraph are SuggestedRemedy		ne 33, 42) litera	lly.	the expiration of tim	ers. To make th entsProcessed	is more obvious,	, add '_timer' to t	he variables.
second paragraph are buggestedRemedy remove sentences 'As sequence number'	repeated some lines below (li fragments are received,' an <i>Response Status</i> W	ne 33, 42) litera	lly.	the expiration of tim SuggestedRemedy change to 'noFragm	ers. To make th entsProcessed gure 61-11 <i>Response</i>	is more obvious,	, add '_timer' to t	he variables.
second paragraph are uggestedRemedy remove sentences 'As sequence number' roposed Response	repeated some lines below (li fragments are received,' an <i>Response Status</i> W	ne 33, 42) litera	lly.	the expiration of tim SuggestedRemedy change to 'noFragm 61.2.2.4.2. and in F Proposed Response	ers. To make th entsProcessed gure 61-11 <i>Response</i> PT.	is more obvious, _Timer' and to 'o	, add '_timer' to t	he variables.
second paragraph are SuggestedRemedy remove sentences 'As sequence number' Proposed Response	repeated some lines below (li fragments are received,' an <i>Response Status</i> W	ne 33, 42) litera	lly.	the expiration of tim SuggestedRemedy change to 'noFragm 61.2.2.4.2. and in F Proposed Response PROPOSED ACCE	ers. To make th entsProcessed gure 61-11 <i>Response</i> PT. . 4.2	is more obvious, _Timer' and to 'o ∌ <i>Status</i> ₩	, add '_timer' to ti neQueueNonEm 	he variables.
second paragraph are uggestedRemedy remove sentences 'As sequence number' roposed Response	repeated some lines below (li fragments are received,' an <i>Response Status</i> W	ne 33, 42) litera	lly.	the expiration of tim SuggestedRemedy change to 'noFragm 61.2.2.4.2. and in F Proposed Response PROPOSED ACCE	ers. To make the entsProcessed gure 61-11 <i>Response</i> PT. .4.2 rt <i>Commen</i>	iis more obvious, _Timer' and to 'o e <i>Status</i> W P 370 Infineon Tech ot <i>Status</i> D	, add '_timer' to ti neQueueNonEm 	he variables.
second paragraph are suggestedRemedy remove sentences 'As sequence number' proposed Response	repeated some lines below (li fragments are received,' an <i>Response Status</i> W	ne 33, 42) litera	lly.	the expiration of tim SuggestedRemedy change to 'noFragm 61.2.2.4.2. and in F Proposed Response PROPOSED ACCE C/ 61 SC 61.2.2 Schneiderheinze, Burka Comment Type T	ers. To make the entsProcessed gure 61-11 <i>Response</i> PT. .4.2 rt <i>Commen</i>	iis more obvious, _Timer' and to 'o e <i>Status</i> W P 370 Infineon Tech ot <i>Status</i> D	, add '_timer' to ti neQueueNonEm 	he variables. npty_Timer' in
second paragraph are SuggestedRemedy remove sentences 'As sequence number' Proposed Response	repeated some lines below (li fragments are received,' an <i>Response Status</i> W	ne 33, 42) litera	lly.	the expiration of tim SuggestedRemedy change to 'noFragm 61.2.2.4.2. and in F Proposed Response PROPOSED ACCE C/ 61 SC 61.2.2 Schneiderheinze, Burka Comment Type T smallestFragmentS SuggestedRemedy	ers. To make the entsProcessed gure 61-11 <i>Response</i> PT. .4.2 rt <i>Commen</i> equenceNumbe entSequenceNu	is more obvious, _Timer' and to 'o e Status W P 370 Infineon Tech of Status D er is missing	, add '_timer' to ti neQueueNonEm 	he variables.

SC 61.2.2.4.2

C/ 61 SC 61.2.2.4 Schneiderheinze, Burkart		L 2 Fechnologies	# 454	C/ 61 Schneiderhein	SC 61.2.2.5 ize, Burkart	P 371 Infineon Techn	L 48 plogies	# 514
Comment Type T Definition of oneQueu	Comment Status D eNonEmpty:	C C		Comment Typ not clear v		Comment Status D	J	
times	eues have been non-empty			SuggestedRei add that th	-	extra buffer size per PME needs	to be foresee	n
times The FALSE condition	is not the correct inverting pty neither TRUE nor FAL	of the TRUE condition	-	Proposed Res	sponse	Response Status W		
SuggestedRemedy Change to 'FALSE otl	nerwise'			With:		al length will not contribute sign		
Proposed Response PROPOSED ACCEP	Response Status W					al length will not contribute sigr ffer size is required for this vari		e differential latency; no
				C/ 61	SC 61.2.2.6	P 372	L 38	# 457
C/ 61 SC 61.2.2.4		L 36	# 456	Schneiderhein	nze, Burkart	Infineon Techn	ologies	
Schneiderheinze, Burkart	Infineon T	echnologies		Comment Typ	e T	Comment Status D		
Comment Type T description for overflo change ' causes an	Comment Status D w misleading: overflow' to ' causes a	an frame length over	flow'.	receive bu	uffer size def	ragment is currently 512+2 octe inition is based on 512 octets. t dividable by 4 as required in c		= 514 octets long. But
	rflow error is described in a			SuggestedRei	medy			
	frame buffer (after reassen es for fragment buffer), this			remove 'n	ot' in a and b	o: min 64 and max 512 _includir	ng_ PAF head	er.
additionally.	ee iei iiagiiieii eallei),			Proposed Res	sponse	Response Status W		
SuggestedRemedy				,	ED ACCEPT			
change ' causes an	overflow' to ' causes a	an frame length over	flow'					
Proposed Response	Response Status W				SC 61.2.2.6	P 372	L 39	# 602
PROPOSED ACCEP	IN PRINCIPLE.			Squire, Matt		Hatteras Netwo	orks	
Replace				Comment Typ		Comment Status D		
"causes an overflow . with "causes a frame lengt				restriction	· · ·	dd? According to 61.2.2.5, late 2.5. Whats so special about 512 ent?		
				Anvwav. it	t is redundar	nt and misleading.		
				SuggestedRei		U U		
				Remove (
				Proposed Res	soonse	Response Status W		

C/ 61 SC 61.2.2.7. Schneiderheinze, Burkart	P 373 Infineon Techr	L 10 nologies	# 458	C/ 61 SC 61. Schneiderheinze, Bu		P 375 Infineon Tech	L 37 Inologies	# 516
Comment Type E Comn Typo:framgent	ent Status D			Comment Type T no remote discov		nment Status D s real register with de	dicated address	defined in clause 45
SuggestedRemedy fix it				SuggestedRemedy define clause45. can only be mod	· · ·	te_discovery_register	(valid only for C	PE types, read only,
roposed Response Respon PROPOSED ACCEPT.	nse Status W			Proposed Response PROPOSED AC	Resp	oonse Status W		
C/ 61 SC 61.2.2.7.3.	P 374	L 3	# 459		-	Clause 45 session.		
chneiderheinze, Burkart	Infineon Techr	nologies		C/ 61 SC 61. Schneiderheinze, Bu	-	P 376 Infineon Tech	L 49	# 517
One error condition is currently r frames a fragment with neither S Signal PAF_Lost can also be us	ot handled: while pa oP nor EoP is receiv	/ed.		Comment Type E wrong cross ref		nment Status D		
missingStartOfPacket in the stat	e diagram.			SuggestedRemedy				
uggestedRemedy page 374, line 3: remove 'the En	dOfPacket hit assert	ed and		update to 45.2.3.				
in 61.2.2.4.2 and in Figure 61-11	: add missingStartO			Proposed Response PROPOSED AC	,	oonse Status W		
PROPOSED ACCEPT.	nse Status W			C/ 61 SC 61.	-	P377	L 39	# 518
8761SC61.2.2.8.3chneiderheinze, Burkart	P 375 Infineon Techr	L 5 nologies	# 515	Schneiderheinze, Bu Comment Type T no definition of re	Con	Infineon Tech nment Status D ery_register given cla	C C	
comment Type T Comm accdg. to 45.2.6.3.1 the remote_ only defined for the -R ports, nei	ent Status D discovery_register is her aggregation_sta	s not a register, l ite_register	but a variable which is	SuggestedRemedy	_	ter and assign addre		
SuggestedRemedy add these 2 registers to Clause 4 only modified using remote addr				Proposed Response PROPOSED AC See also comme	, CEPT IN PRI	oonse Status W NCIPLE. e discussed by CuST	F in Clause 45 s	ession.
PROPOSED ACCEPT IN PRINC				Cl 61 SC 61. Schneiderheinze, Bu		P 377 Infineon Tech	L 1 Inologies	# 460
To be discussed by CuSTF in Cl	ause 40 session.			Comment Type E wrong Gamma-S		nment Status D		
				SuggestedRemedy change RxErr to	Rx_Err			
				Proposed Response PROPOSED AC	,	oonse Status W		

Cl 61 SC 61.2.3. Schneiderheinze, Burkart	P 377 Infineon Techr	L 44 ologies	# 461	Cl 61 SC Schneiderheinze,	61.3.2.1 Burkart	P 380 Infineon Techr	L 13 nologies	# 520	
Comment Type E wrong cross reference	Comment Status D	0		PMA_PMD T		Comment Status D dg. to Cl45.2.1.12 a PM can s operation of -O and -R devic		nd CO operation, coding	
SuggestedRemedy change to 45.2.6.3.1				SuggestedRemed	ly				
0	Response Status W			define coding	for all 6 di	fferent scenarios			
Proposed Response PROPOSED ACCEPT.	,			Proposed Respor PROPOSED		Response Status W			
C/ 61 SC 61.3.1 kimpe, marc	P 379 Adtran	L 4	# 390			ommunicate the operating mo used, for example, to control			
Comment Type TR	Comment Status D			C/ 61 SC	61.3.2.2.	P 380	L 28	# 462	
Comment applies to tak identical to G.993.1. It	Schneiderheinze,		Infineon Techr	nologies					
functionality needed for TC_link_state bit.	Comment Type typo	E	Comment Status D	-					
SuggestedRemedy					L .				
Either remove TC_link_ functionality	_state or use one of the existir	g gamma inter	face signal to carry its	SuggestedRemed change clt_t t	-				
Proposed Response PROPOSED REJECT.	Response Status W			Proposed Respor PROPOSED		Response Status W			
This signal has been p	resent in the draft since D1.2,	perhaps earlie	r.		61.3.3.1	P382	L 32	# 463	
This signal is needed because the PAF needs to know the status of the link state. The				Schneiderheinze,		Infineon Techr	nologies		
addition of the signal pr	51	Т	Comment Status D						
C/ 61 SC 61.3.2 Schneiderheinze, Burkart	P 379 Infineon Techr	L 27 ologies	# 519	 'No new fragment shall be transmitted when TC_link_state = FALSE (TC_link_state i defined in 61.3.3.7). If a fragment is being transmitted when TC_link_state becomes the End of Frame codeword completing the fragment shall not contain an S symbol a 					
Comment Type E term PMD PME not cor	the end of the fragment' does not describe the behaviour correctly, since the state machine was changed to react immediately on TC_link_state changes.								
SuggestedRemedy				SuggestedRemed	ly				
remove PMD						t is being transmitted when T		ecomes false, the	
Proposed Response	Response Status W			-	ment is aborted immediately.	•			
PROPOSED ACCEPT.				Proposed Respor PROPOSED		Response Status W N PRINCIPLE.			

See comment #202

C/ 61 SC 61.3.3.3. Schneiderheinze, Burkart	P 385	L8	# 464	C/ 61 Schneiderhein	SC 61.3.3.5.1		L12	# 465
	Infineon Techr	lologies				Infineon Techno	logies	
Comment Type T In the 2BASE-TL polynomi to be removed. SuggestedRemedy remove terms	Comment Status D al there is a mistake: in the	ə first part tern	ns x^20 and x^23 have	the definit c) is a new	uivocalSyncs: ion used in D3 w requirement	Comment Status D 3.0 is covered fully by a) and b) compared to D3.0, that additio plicated than necessary.		the sync detection
	D			SuggestedRei	medy			
Proposed Response F PROPOSED ACCEPT.	Response Status W			remove c)				
PROPOSED ACCEPT.				Proposed Res	sponse	Response Status W		
61 SC 61.3.3.5.1	P 387	L 5	# 521	PROPOS	ED ACCEPT I	N PRINCIPLE.		
Comment Type T Comment Status D				 Note that the current (a) and (b) do not cover the case where the syncs are not all separated by 64 bytes. However, (c) appears incorrect. Condition (c) should have 3 syncs in it (just as (b) does however, the length of the sequence as defined in (a) is not long enough to include 3 sync that are not all separated by 64 bytes. This is why it only includes 2 syncs. However, it appears that (a) needs to be revised slightly so that a longer (c) sequence could be included. The new definitions would read as follows: (a) the sequence is of the form <data><sync><data><sync><data><sync><data><sync><data><sync><data><sync><data><sync><data><sync><data><sync><data><sync><data><sync><data><sync><data><sync> value;</sync></data></sync></data></sync></data></sync></data></sync></data></sync></data></sync></data></sync></data></sync></data></sync></data></sync></data></sync></data></sync></data> (b) the pattern <sync><data><sync><data><sync> occurs nowhere in the sequence, where <sync> and <data> are as defined in (a), unless the <sync> values are coincident with those in (a);</sync></data></sync></sync></data></sync></data></sync> (c) the patterns <sync><data1><sync><data><sync>, occur nowhere in the sequence, where <sync> is as defined in (a) and <data1> is 129 octets of any value, unless the <sync> values are coincident with those in (a).</sync></data1></sync></sync></data></sync></data1></sync> 				
reference to clause 45 register bit missing SuggestedRemedy add cross ref of reset to register 3.6.xx (reset bit definition still missing - see different comment addressing this issue) Proposed Response Response Status W PROPOSED ACCEPT.								
				C/ 61	SC 61.3.3.5.2	P 387 Alcatel Bell nv	L 44	# 200
				,				
				Comment Typ Figure 61-		Comment Status D oduced by a "shall"-statement.		
				SuggestedRei	medv			
				Change text to: The receiver shall implement the sync detect state machine shown in Figure 61-17. Add corresponding PICS entry.				
					openangrie			

SC 61.3.3.5.2

C/ 61 SC 61.3.3.7.1 P389 L 22 # 130	C/ 61 SC 61.3.3.7.2. P391 L28 # 470					
rown, Benjamin Independent	Schneiderheinze, Burkart Infineon Technologies					
Comment Type TR Comment Status D Missing variable definition	Comment Type T Comment Status D Rx_EoP not used any more in state diagram					
uggestedRemedy	SuggestedRemedy					
Add a definition for TC_synchronized (used in state SYNC_IDLE) - probably copy from	remove Rx_EoP definition					
61.3.3.7.2. This variable is now defined 3 different times in 5 pages. If it wasn't so late in the process, I'd recommend combining all the variable definitions for all 3 state diagrams (61-17, 61-18, and 61-19). This may be more than you want to take on at this late date.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Elevated from "E" to "T" Needs discussion in STF.					
Just be careful how this variable is described so there is no conflicting definitions. roposed Response Response Status W						
PROPOSED ACCEPT.						
C/ 61 SC 61.3.3.7.1 P 390 L 34 # 202 Beck, Michael Alcatel Bell nv Alcatel Sell nv # 202 •••	Add Rx_EoP control (in desciption of sendOctetToPAF). Or note that RX_EoP behavior is defined in referenced G.993.1 specification.					
Comment Type T Comment Status D	C/ 61 SC 61.3.3.7.2. P391 L54 # 471					
In Figure 61-18, a change in variable TC_link_stateCHANGE causes an abrupt change in	Schneiderheinze, Burkart Infineon Technologies					
the transmitted pattern, forcing the remote to lose sync. This behavior may be unwanted.	Comment Type T Comment Status D					
uggestedRemedy Remove k <= 0 from state INIT.	definition of decode(octet B) can be simplified: between 0 and 63: valid C(k), greater or equal 64: not valid C(k). other values are not used in state diagram					
roposed Response Response Status W	SuggestedRemedy					
PROPOSED ACCEPT IN PRINCIPLE.	change definition accordingly					
Needs discussion in STF. Remove k=0 from INIT, or perhaps enter state ABORT_FRAGMENT instead.	Proposed Response Response Status W PROPOSED ACCEPT.					
See comment #463						
7 61 SC 61.3.3.7.1. P389 L35 # 466	It appears that decode() is just used to set kmax in DECODE1 and DECODE2.					
chneiderheinze, Burkart Infineon Technologies	C/ 61 SC 61.3.3.8 P 392 L 25 # 522					
omment Type T Comment Status D	Schneiderheinze, Burkart Infineon Technologies					
The transmit fifo described here needs to be flushed in case of loosing sync (can be done e.g. in the INIT state), otherwise the transmission might start with an incomplete fragment	Comment Type T Comment Status D remote TC synchronized will be passed to clause 45 and missing in management entitiv lis					
after regaining sync	SuggestedRemedy					
uggestedRemedy	add remote TC synchronized and cross reff to 45.2.6.10					
add appropriate hint here	Proposed Response Response Status W					
roposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED ACCEPT IN PRINCIPLE.					
Add buffer flush to INIT state.	Note the state machine variable is remote_TC_out_of_sync (i.e., the inverse of the Clause 45 bit). Note also that reference on page 391, line 21 is incorrect (should be 45.2.6.10).					
See comments #202 & #463 also.	Correct text accordingly.					

 TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause
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 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 C/ 61
 SC

SC 61.3.3.8

C/ 61 SC 61.4.1 Barry, O'Mahony	P 392 Intel	L 45	# 427	C/ 61 SC 61.4.3 Beck, Michael	P 394 Alcatel Bell nv	L 54	# 208	
SuggestedRemedy	Comment Status D ed at the April SG15 meeting. G.994.1 (see Q4/15 liaison). Al	lso update in Cla	use 1.	(DFW, TX, 10-13 Marc	Comment Status D ated in ITU, as a reaction to the ch 2003) to ITU, stating that IE , and "B4" for the SCM line co	EE for 10PASS	-TS had chosen B43	
Proposed Response PROPOSED ACCEP	Response Status W T.			In a liaison to the IEEE EFM Task Force, ITU proposed to replace the B4 toneset by toneset V43 as a common toneset to be used for both SCM and MCM				
				V43 in the US0-DS1 b	re in consideration for 10PASS and has disappeared. Therefo urrently under discussion in ITI	re, we propose		
				SuggestedRemedy				
					mandatory tonesets in 10PASS f SG15/Q4 March 8-12, San Fr			
				In the absence of a lia	ison from ITU, following resolu	tion is proposed	d:	
				Table 61-13:				
				D43 (a) US: 9, 17, 25; max pw DS: 257 383 511; max				
				E43 (a) US: 37, 45, 53; max p DS: 257 383 511; max				
				F43 (a,b) US: 944, 999, 1037; m DS: 257 383 511; max				
				for example -23.65 dB b) It is expected that th	s it may be necessary to limit t m/carrier where the PSD is lim he sufficient power back-off is ve crosstalk into adjacent pairs	nited to -60 dBm applied to the u	h/Hz. pstream tones of shor	
					3 and F43 are mandatory tones s the use of a particular tonese			
				Proposed Response PROPOSED ACCEPT	Response Status W			

Proposed response pending results of March 8-12 Q4/15 meeting.

C/ 61 SC 61.4.3 P 395 L 17 # 413 Barry, O'Mahony Intel	C/ 61SC 61.4.8.1P 398L 7# 525Schneiderheinze, BurkartInfineon Technologies
Comment Type T Comment Status D Table 61-15 is a duplicate of Table 3/G.994.1.	Comment Type T Comment Status D A CLR message sent by the -R device is always followed by a CL (not a CLR message)
This comment is submitted on behalf of ITU-T Q4/15. Q4/15 in their liaison requests that we reference the table in G.994.1 instead of reproducing it.	SuggestedRemedy rename CLR to CL on line 7, 25, 43
SuggestedRemedy Delete Table 61-15; insert reference to Table 3/G.994.1.	Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Delete Table 61-15; insert reference to Table 3/G.994.1.	C/ 61 SC 61.4.8.3 P 399 L 30 # 419 Barry, O'Mahony Intel
Depending on the resolution of comment #208, Table 61-13 may also be replaced by a reference. C/ 61 SC 61.4.8 P 396 L 30 # 523 Schneiderheinze, Burkart Infineon Technologies	Comment Type T Comment Status D As it currently stands, even with changes made to D3.1, the text leaves the behavior of th PHYs when the PMA/PMD Link Control bit is set to one in the "-R "10P/2B Link Control register (Table 45-10a) undefined. In fact, it states it is out of scope. This needs to be fixed. Also, not all values of PMA/PMD type selection are supported in all cases.
Comment Type T Comment Status D Not necessarily all CLR messages have to be preceded by MR/REQ-CLR message (i.eR initiated start up)	SuggestedRemedy Modify the text beginning at line 30 to read as follows:
SuggestedRemedy rephrase sentence that each CLR message might be preceded by MR/REQ-CLR message Proposed Response Response Status W	If the PMA/PMD link control bit is set to 1 in the -O device (Table 45–10a), or discovery register operations are initiated (Table 45–59b), or link partner aggregation register operations are initiated (Table 45–59c), the -O device initiates G.994.1 startup procedures by transmitting C-TONES.
PROPOSED ACCEPT IN PRINCIPLE. Change NOTE 2 to: "In the transactions specified in this subclause, each CLR message may be preceded by MR/REQ-CLR messages. Each CL message is followed by an ACK(1). These messages are not shown in the diagrams."	If the PMA/PMD link control bit is set to 1 in the -R device (Table 45–10a), the -R device initiates G.994.1 startup procedures by transmitting R-TONES-REQ. NOTE—"-R" device initiated start-up is outside the scope of this standard. {delete Note}
C/ 61 SC 61.4.8.1 P 396 L 48 # 524 Schneiderheinze, Burkart Infineon Technologies	At the conclusion of G.994.1 startup, the "-R" device shall begin G.994.1 transactions by transmitting an MR message.
Comment Type T Comment Status D remote discovery accesses only valuable if CPE sets PME Aggregation Discovery SPar(2) bit to 1(PAF available) SuggestedRemedy add this note Proposed Response Response Status W	If the G.994.1 session was initiated by the PMA/PMD link control bit (signifying that the lin is to be brought up) in either the "-O" or "-R" device, then the "-O" device shall respond wi an MS message specifying the configured mode of operation. However, if the PMA/PMD type selection bits in the "-O" device are set to the value 0011 or 0100, and a capabilities exchange has not previously taken place, the "-O" device shall instead respond with an REQ-CLR so that a capabilities is performed. Following the final message of the capabilities exchange (i.e., an ACK(1)), the "-R" device once again sends an MR message. The "-O" device shall respond with an MS message specifying the configured
PROPOSED REJECT. The first sentence of this subclause reads: "2BASE-TL-R and 10PASS-TS-R PHYs shall assert the PME Aggregation Discovery SPar(2) bit in all G.994.1 CLR messages, if and only if its local PAF_available bit is set." This implies the information requested by the commenter.	mode of operation. Proposed Response Response Status W PROPOSED ACCEPT.

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause Page RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn C/ 6

C/ 61	SC	61.4.8.3	P3	399	L 30	#	526	C/ 61
Schneider	rheinze,	Burkart	Infine	on Techr	ologies			Schne
Comment	Туре	TR	Comment Status	D				Comn
parts		consider ex	line 30 just specify periences made in					C a pl
Suggeste	dReme	dy						sł
'The f	irst g.99	94.1 sessio	replace them by the n after Power Up, n ster operation or a F	o matter v	whether this is			Sugge Ro bit
	by the		up and send a CLR i.e. wake up out of					Propo Pl
with a If the prece device	n MR m g.994.1 ding dis e shall r wise wit	nessage. session wascovery ope espond wit h an REQ-0	r wake up scenario) as initiated by the P ration and/or partno h an MS message s CLR' <i>Response Status</i>	MA/PMD er aggreg specifiying	link control bit ation register of	(see 45.2) operation, t	.1.11) then the -o	
PROF The u	POSED ise of -R	REJECT. R initiated s	tartup is addressed clear. Needs discus	by comm		motivatior	n for the other	
C/ 61	SC	61.4.8.3	P3	399	L 45	#	527	
Schneider	rheinze,	Burkart	Infine	eon Techr	ologies			-
	nding or	TR the g.994. equately	Comment Status 1 message the -o o	_	eived before, t	he -o devi	ce has to	
Suggeste	dReme	dy						
			entence in the follow received before) or					
Proposed PROF		nse ACCEPT.	Response Status	w				

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

SC 61.4.8.3 P 399



Infineon Technologies

528

Schneiderheinze, Burkart

_

nent Type TR Comment Status D

Cleardown condition not correct. Aggregation has 3 different stage, and each link can be in a different stage. Between the stages there might be some breaks where no actions takes place on this link (none of the 3 mentioned bits set). In this breaks no clear down process shall be started

SuggestedRemedy

Remove entire sentence, see different comment which is asking for dedicated clear down bit in register 45.1.30 (chapter 45.2.11)

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Needs discussion in CuSTF.

C/ 61	SC 61.6	P 400	L17	# 209
Beck, Mi	chael	Alcatel Bell nv		

Beck, Michael

Comment Type **TR** Comment Status **D**

61.6, "MDI specifications", states that "local regulations may dictate interface characteristics in addition to or in place of some or all of these requirements".

61.8, "Environmental specifications", states that "the specific requirements of the network operator or the local authority having jurisdiction shall prevail in all cases".

These statements override the specific requirements of Clause 62 and Clause 63, and may impact the performance of EFM Copper systems. There is no text to warn the implementer/user that this may result in non-compliance with this standard.

SuggestedRemedy

Add the following informative text to 61.7 "System considerations"

NOTE---It is recognized that an EFM Copper system may have to comply with additional requirements and/or restrictions outside the scope of this standard (see 61.6 and 61.8 for examples) in order to be allowed to be connected to a public infrastructure in a certain geographic area or regulatory environment. These additional requirements and/or restrictions may prohibit operation under certain profiles, or degrade the performance of the system when working under certain profiles. If this is the case, the system is not compliant with this standard, as compliant systems support all profiles (see Annex 62A for 10PASS-TS and Annex 63A for 2BASE-TL) and meet all performance guidelines (see Annex 62B for 10PASS-TS and Annex 63B for 2BASE-TL).

A compliant CPE-side system cannot distinguish a CO-side system designed to operate under a limited set of profiles from a fully compliant CO-side system, as the selection of profiles is under control of the CO-side. A CPE-side system designed to operate under a limited set of profiles cannot be guaranteed to correctly interoperate with compliant CO-side systems.

It is recommended that vendors of systems that support a limited set of profiles provide PICS forms to indicate which profiles are supported, in order to allow users to assess the impact on interoperability.

Proposed Response	Response Status	W
PROPOSED ACCEPT.		

C/ 61	SC 61.7	P 400	L 23	# 289
Dawe. Pie	ers	Agilent		

Comment Type E Comment Status D

only in the wrong place

SuggestedRemedy

Change 'Both EFM Copper port types are only defined for full duplex operation,' to 'Both EFM Copper port types are defined for full duplex operation only,'.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 61	SC Figure 6	1-14	P 381	L 39	# 128
Brown, Be	enjamin		Independent		
Comment Wrong	<i>Type</i> TR g symbol	Comm	ent Status D		
Suggestee	dRemedy				
	the FCS is inserted alue pointing to the			d be "Z" not "S",	as is described by the
	-	-	o		

Proposed Response Response Status W PROPOSED ACCEPT.

C/ 61	SC Figure 61-15	P 384	L 9	# 129
Brown, I	Benjamin	Independent		

Comment Type TR Comment Status D

The base number "16" isn't showing up clearly - only the "1" is showing up

SuggestedRemedy

Either change the width of the box so the "16" shows up or drop the subscript base entirely, perhaps adding a note at the bottom of the figure stating that all octets other than Dx are in hexadecimal notation.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Given the limited amount of space in the little rectangles, the editor favors dropping the subscripts in this Figure, and adding a note at the bottom of the figure stating that all octets other than Dx are in hexadecimal notation.

C/ 61	SC Figure 61-18	P 390	L 29	# 131
Brown, Ben	amin	Independent		

Comment Type TR Comment Status D

I think you made this change at my suggestion back in January but I'm not sure I like the ramifications. Whenever TC_link_state changes to FALSE, the 64/65-octet boundary changes since the variable k is reset to 0 immediately upon this occurrence.

SuggestedRemedy

Remove the k<=0 assignment from state INIT

Create a parallel state to INIT that keeps the k<=0 assignment. Add a global input to this state for "BEGIN" then copy the definition of BEGIN from 61.3.3.5.1 to 61.3.3.7.1. Modify state names as desired.

BEGIN wants to assign a value to k. TC_link_state changing to FALSE should not change the value for k.

Proposed Response Response Status W PROPOSED ACCEPT. See also comment #202.

TYPE: TR/technical required T/technical E/editoria	COMMENT STATUS: D/dispatched A/accepted R/rejected	SORT ORDER: Clause, Page, Line, Subclause
RESPONSE STATUS: O/open W/written C/closed	U/unsatisfied Z/withdrawn	

C/ 61 SC Figure 61-18 Schneiderheinze, Burkart	P 390 L 3 Infineon Technologies	 Cl 61 SC Figure 61-19 P 393 L 11 # 473 Schneiderheinze, Burkart Infineon Technologies
Comment Type T Comme add 'Reset'-Transition into state 'IN	ent Status D	Comment Type T Comment Status D In state OUT_OF_FRAG_POS_1, only correct symbols shall reset remote_TC_out_of_sync to FALSE
SuggestedRemedy add 'Reset'-Transition into state 'IN Proposed Response Respons PROPOSED ACCEPT.	NIT' se Status W	SuggestedRemedy "In state OUT_OF_FRAG_POS_1, change the assignment of remote_TC_out_of_sync to IF (B=D1) THEN remote_TC_out_of_sync <= TRUE ELSE IF (B=50) or (B=0) THEN remote_TC_out_of_sync <= FALSE"
C/ 61 SC Figure 61-18 Schneiderheinze, Burkart	P 390 L 4 Infineon Technologies	 Proposed Response Response Status W PROPOSED REJECT. If an incorrect symbol is received, we don't know if the remote TC is out of sync or not.
incrementation of k for each octet functionally not matter, but it would END_FRAGMENT. SuggestedRemedy	d be better understandable	
ouggesteurterneuy		
move 'k:=k+1' from END_DATA to Proposed Response Response	se Status W	
move 'k:=k+1' from END_DATA to Proposed Response Respons PROPOSED ACCEPT. C/ 61 SC Figure 61-18	—	
move 'k:=k+1' from END_DATA to Proposed Response Response PROPOSED ACCEPT. C/ 61 SC Figure 61-18 Schneiderheinze, Burkart Comment Type T Comme As transmitZ() is defined it sends N	<i>P</i> 390 <i>L</i> 4 Infineon Technologies <i>ent Status</i> D Y when k=1.	
move 'k:=k+1' from END_DATA to Proposed Response Response PROPOSED ACCEPT. C/ 61 SC Figure 61-18 Schneiderheinze, Burkart Comment Type T Comme	<i>P</i> 390 <i>L</i> 4 Infineon Technologies <i>ent Status</i> D Y when k=1. need to be exchanged (k:=k	

C/ 61	SC Figure 61-19	P 393	L 34	# 134
Brown, Be	enjamin	Independent		

Comment Type **TR** Comment Status **D**

When an improper value is decoded from C in state DECODE1, the packet is never errored or terminated across the PAF. In fact, if you follow the state diagram through states COUNT_CODING_VIOL, CODING_VIOLATION, CHECK_SYNC3, DECODE2 and END_OF_FRAGMENT, it is possible that 2 packets could be munged together across the MII without an error indication at all.

Consider 1 packet that ends early in a 64/65 octet code word and a second packet that starts immediately after it in the same code word. The second packet ends in the following code word. When the first code word is received, the "C" character is corrupted so that the state diagram takes the path described above. It counts the coding violation then spins through the remainder of the first code word while in state CODING_VIOLATION. In state DECODE2, it sees a valid "C" character and so transitions to state END_OF_FRAGMENT. The PAF would see the end of the second packet in place of the end of the first packet but RX_ERR would not be set.

SuggestedRemedy

Set RxErr and RxEOP in state COUNT_CODING_VIOL or perhaps in a brand new state between state DECODE1 and COUNT_CODING_VIOL.

Then, if a clean start of packet wasn't detected, why bother receiving the end of the packet? When leaving state DECODE2 because of a valid "C" character implying EOP, go somewhere to read the remainder of the packet but don't give that packet to the PAF.

By the way - why doesn't this state diagram set RxEOP anywhere?

Proposed Response Response Status W

PROPOSED REJECT.

TC_coding_error is set in state "COUNT_CODING_VIOL".

Subclause 61.2.2.7.1 says: "If the TC detects an error in the encapsulation, it asserts Rx_Err on the Gamma-interface."

An errored fragment would hence be discarded in the PAF because Rx_Err is set during reception.

The statement at the beginning of 61.3.3.7 applies:

"Only the signals that affect the operation of the state machines are explicitly mentioned in the state diagrams. Other signals are to

be set and read in accordance with the specifications of the gamma-interface (see 61.3.1) and the alpha(beta)-interface

(see 61.3.2) ."

C/ 61	SC Figure 61-19	P 393	L 34	# 133
Brown, B	enjamin	Independent		

Comment Type TR Comment Status D

Decoded C values other than 0-63 are all treated the same. There is no reason to decode to specific values for Z, Y, or S.

SuggestedRemedy

On page 391, remove the second to last and third to last sentences in the definition for "decode(octet B)"

Proposed Response Response Status W PROPOSED ACCEPT.

See comment #471

C/ 61	SC Figure 61-19	P 393	L 37	# 132
Brown, B	enjamin	Independent		

Comment Type TR Comment Status D

aquireSync function in state LOSS_OF_SYNC2 is unnecessary. This function is preformed by the state diagram in Figure 61-17. This state diagram is always running in parallel with Figure 61-19 and does not require a specific function call to make it operate.

SuggestedRemedy

Remove this function call from this state and remove its definition from page 391.

Proposed Response	Response Status	W
PROPOSED ACCEPT.		

C/ 61	SC Figure 61-19	P 393	L 4	#	472
Schneiderhe	einze, Burkart	Infineon Techr	nologies		

Comment Type T Comment Status D

RxErr is set in states START_FRAGMENT, LOSS_OF-SYNC1 and CHECK_SYNC2. Setting it to FALSE in START_FRAGMENT and setting it to TRUE in LOSS_OF_SYNC1 is correct, but it has also to be set to TRUE for every coding violation (see 61.2.2.7.1.) and for every CRC error, not just in state CHECK_SYNC2. Additionally, it has to be renamed to Rx_Err.

SuggestedRemedy

Rename to Rx_Err and set/reset whereever appropriate, or remove this variable completely from the state diagram

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Rename to Rx_Err and remove completely from the state diagram.

C/ 61 SC Figure 61-19 P 393 L 43 # 135 Brown, Benjamin Independent Independent Independent Independent	C/ 61 SC Figure 61-3 P 359 L 23 # 582 Cravens, George Mindspeed
Comment Type TR Comment Status D	Comment Type T Comment Status D
Clean up state END_OF_FRAGMENT	The TC is mentioned in the paragraph preceeding the figure, but is not shown in the figure
SuggestedRemedy Replace contents of state END_OF_FRAGMENT with the following:	Add a TC block above each of the PME blocks in the diagram, with connections to the MDC & MDIO lines labeled "Address 0.6".
remote_TC_out_of_sync <= FALSE B <= receiveOctet() if k=kmax then RXEop <= TRUE	Also, since Clause 45 shows address x.1 going to the PMA/PMD, the PME blocks might want to add "(PMA/PMD)". {Do not delete the PME label, since it helps the reader follow the discussion that follows in this clause.}
sendOctetToPAF(B) k <= k+1	SuggestedRemedy
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Add a TC block above each of the PME blocks in the diagram, with connections to the MDC & MDIO lines labeled "Address 0.6".
The Suggested Remedy has following drawbacks:	Also, since Clause 45 shows address x.1 going to the PMA/PMD, the PME blocks might want to add "(PMA/PMD)". {Do not delete the PME label, since it helps the reader follow the discussion that follows in this clause.}
-receiveOctet() must not be called if k>kmax (e.g., k=1 and kmax=0, in case the fragment ended with the last octet of the previous codeword); therefore, the function call must be conditional to the "IF k<=kmax" statement.	Proposed Response Response Status W PROPOSED REJECT. As shown in Figure 61-2, the PME consists of PMD, PMA and TC.
-The statement "k := k+1" outside the THEN block of the "IF k<=kmax" statement may cause interpretation problems due to the assumed simultaneity of actions within a state.	C/ 61 SC Figure 61-8 P 367 L 18 # 404 Law, David 3Com
However, in the current state diagram k is increased even if no octet was read (IF k>kmax) which is incorrect.	
The state should be corrected by removing the ELSE block.	The signal RX_DV is output by the PHY an therefore must be driven by one of the PHY state machines - that is it has to be an output and appear as an assignment within some of the states. The only place that RX_DV seems to appear however is as an input to this state diagram which doesn't seem correct.
	SuggestedRemedy
	Add the control of RX_DV to one of the state diagrams for this PHY.
	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. In 61.2.1.3.4, add the following sentence to the definition of the function transferFrame(): "RX_DV is sourced by the EFM Copper PHY in accordance with 22.2.2.6."

C/ 61	SC General	P 318	L	# 99325
Grow, Rober	t	Intel		

Comment Type TR Comment Status R

The management functions of the EFM copper are not specified correctly. Many functions are not defined in Clause 30, and consequently will not be accessable through OAM, as OAM functions are defined in terms of the Clause 30 MIB. Ethernet SNMP functions are also traditionally defined in terms of Clause 30 and not directly into any specific interface type.

SuggestedRemedy

Rewrite the clause and supporting clauses consistent with 802.3 specification approaches. State diagrams reference register definitions, where relevant. Clause 30 references register bits and state diagrams. OAM points to the Clause 30 MIB, not internal functions of Clause 61. If something is expected to be in an SNMP MIB, it should have the capability specified in Clause 30.

Proposed Response Response Status U

REJECT.

The Copper Sub Task Force has deliberately chosen to divide registers into two categories.

A first category of objects has either only internal significance or allows a level of detailed control not ordinarily needed for normal operation. The registers for these objects can be read/written by means of the Clause 45 MDIO or an equivalent interface, if implemented. It's not expected that these parameters would be set via an SNMP agent.

A second category of objects controls the macroscopic behavior of the EFM Copper devices in terms of discrete, well-defined and testable profiles. These profiles are defined in Annex 62A (10PASS-TS) and Annex 63A (2BASE-TL) and can be controlled by means of dedicated Clause 30 managed objects.

In some cases, equivalent managed objects may appear in Clause 45 and Clause 30. These objects require manageability regardless of the way in which OAM is implemented.

325	C/ 61 SC Table Cravens, George	e 61-12	P 383 Mindspeed	L 36	# 587
<i>D3.0 #558</i> functions AM, as ons are iterface	Comment Type E Add a column in th SuggestedRemedy Add a column in th	e table for the C			
proaches. ces unctions capability categories.	Z Idle Ck Data Y Idle, Out of Syr R Reserved Proposed Response PROPOSED REJE Z, Ck, Y and R are English" name, ma codewords in Table	<i>Respons</i> CT. the names of th y cause confusi			m another "plain e different types of
detailed	C/ 61 SC Table	e 61-20	P 361 Broadcom	L	# 99326
can be nented.	Comment Type TR Why is Table 61-20		nt Status R	tical to Table 1	<i>D3.0 #799</i> 0/G.994.1
ber defined y means	SuggestedRemedy Delete Table; Refe Proposed Response REJECT.		e Status U		
e 30. emented.	The table is include corresponding foot				ecific than the
	C/ 61A SC 61A.: Schneiderheinze, Burk		P 590 Infineon Techn	L 30 lologies	# 535
	Comment Type E use of PMI	Comme	nt Status D		
	SuggestedRemedy replace PMI with P	ME			
	Proposed Response PROPOSED ACCI	-	e Status W		

C/ 61A SC 61A.2 Schneiderheinze, Burkart	P 590 Infineon Techr	L 40 nologies	# 533	C/ 61A SC 61A.2 Beck, Michael	P 591 Alcatel Bell nv	L 5	# 204
Comment Type E last 3 actions in PME a	Comment Status D ggregation phase (MR, MS, A	CK) are optiona	al di seconda di second	Comment Type E Comment Typo: aplpha	Status D		
SuggestedRemedy mark them as optional				SuggestedRemedy Replace "aplpha" with "alpha".			
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			Proposed Response Response PROPOSED ACCEPT.	Status W		
Replace transactions A	B in two places with just tran:	saction B.		C/ 61A SC 61A.2 Schneiderheinze, Burkart	P 591 Infineon Technolo	L5	# 474
Mark transaction B at e line startup instead).	nd of PME aggration phase a	s optional (e.g.,	may go immediately to	·	Status D	gies	
Change "PMI" to "PME" Cl 61A SC 61A.2 Barry, O'Mahony	'. P 590 Intel	L 46	# 426	SuggestedRemedy fix them Proposed Response Response	Status W		
no parameters. SuggestedRemedy	Comment Status D eady correct hs values)" is inc		-	PROPOSED ACCEPT. C/ 61A SC 61A.3 Schneiderheinze, Burkart	P 591 Infineon Technolo	L 14 gies	# 536
,	eady correct hs values)" nota t" notes on right side, change <i>Response Status</i> W			Comment Type T Comment Exampe encapsulation still up to dat SuggestedRemedy ? Discuss it on the floor	Status D e?? (i.e. transmissic	on of Y Codeword	?)
C/ 61A SC 61A.2 Schneiderheinze, Burkart	P 590 Infineon Techr	L 47 nologies	# 534	Proposed Response Response PROPOSED ACCEPT IN PRINCIPL			
Comment Type E	Comment Status D			Add footnote that the test cases assu		TC is always syn	
MR never contains any SuggestedRemedy	parameter			C/ 61A SC Figure 61A-3 Schneiderheinze, Burkart	P Infineon Technolo	L gies	# 475
	R in the first MR message in t <i>Response Status</i> W IN PRINCIPLE.	he Line Startup		Comment Type E Comment PMI not replaced by PME 5 times in SuggestedRemedy replace PMI by PME Proposed Response Response PROPOSED ACCEPT.			

Dood only Durit of A

			P802.3ah D	raft 3.1 Comments			
C/ 61B SC Schneiderheinze, Burkart	P Infineon Techn	<i>L</i> blogies	# 477	C/ 61B SC 61B.3.1 Schneiderheinze, Burkart	P 597 Infineon Tech	L 37 nologies	# 537
Comment Type E PMI not replaced by PM	Comment Status D IE about 50 times in Annex 61	В		Comment Type E correct data rate is 5696	Comment Status D 6 kb/s not 5696 b/s		
SuggestedRemedy replace PMI by PME				SuggestedRemedy change accordingly			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
C/ 61B SC 61B.2	P 596	L15	# 414				
Barry, O'Mahony	Intel						
Comment Type T	Comment Status D						
Table 61B-1 is a duplic	ate of Table 10/G.994.1.						
Table 61B-1 to 61.4.5 (sert reference to Table 10/G.95 this footnote places additional is specified in G.994.1. <i>Response Status</i> W						
C/ 61B SC 61B.2	P 597	L1	# 207				
Beck, Michael	Alcatel Bell nv	21	# 207				
Comment Type TR	Comment Status D						
the need for EFM-spec proposed to add NPar(n by ITU-T Q4/15 of SPar(1) c ific SPar(1) codepoints has dis 2) codepoints to the handshak eloped by IEEE 802.3ah.	appeared. The	e commenter has				
SuggestedRemedy							
replace the 10PASS-TS codepoints: - G.994.1 SPar(1) code - Existing G.994.1 SPa	epoints proposed in MC-029.do S and 2BASE-TL handshake tr points for aggregation discove r(1) codepoints for G.991.2 and elect 2BASE-TL and 10PASS-	ees by referer ry I G.993.1 in c	nces to the following ombination with the new				
Proposed Response	Response Status W						
PROPOSED ACCEPT	IN PRINCIPLE.						
Proposed response per	nding results of March 8-12 Q4	/15 meeting.					

F 602.3ah	Drait 3.1 Comments
C/ 61B SC 61B.3.1 P 599 L 15 # 205 Beck, Michael Alcatel Bell nv Alcatel Sell nv	C/ 61BSC 61B.3.1P 599L 17# 538Schneiderheinze, BurkartInfineon Technologies
Comment Type T Comment Status D Table 61B-4 seems to contain SPar codepoints, while the title says NPar. Which is it?	Comment Type TR Comment Status A term npar in g.994.1 always means that this parameter has no subparameters
SuggestedRemedy Change table title to "SPar(2) coding". Check octet numbering. Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. NPARs indicate a capability but with no additional parameters. SPARs indicated a capability but with no additional parameters.	SuggestedRemedy move 2 2BASE-TL code points to SPAR section and begin numbering of SPARs with octet #1 Proposed Response Response Status W ACCEPT IN PRINCIPLE. See resolution of comment #205.
Parameters", "Downstream training rates - 16-TCPAM" and "Downstream training rates - 32-TCPAM" need to be SPARs because they have additional parameters. Therefore delete the last three items from Table 61B-4, and insert them into Table 61B-5, pushing all	C/ 61B SC 61B.3.1 P 600 L 12 # 417 Barry, O'Mahony Intel
the rest of the codepoints down.	Comment Type T Comment Status D This comment is submitted on behalf of ITU-T Q4/15.
Final result: NPAR(2) Octet 1 Leave as is	Table 61B-6 in the 2BASE-TL tree defines a "PMI Aggregation Discovery" and "PMI Aggregation" bits. In their liaison, Q4/15 notes they have recently defined similar functionality beneath a Level 1 SPar "bonding" bit in Table 9.0.2.
NPAR(2) Octet 2 Regenerator silent period SRU	Table 61B-93 defines a similar bit in the 10PASS-TS tree.
Diagnostic Mode <rest by="" for="" ieee="" octet="" of="" reserved="" use=""></rest>	SuggestedRemedy Remove "PMI Aggregation Discovery" and "PMI Aggregation" bits from Tables 61B-6 and 61B-93. Remove suclauses 61B.3.2.4, 61B.3.2.5, 61B.3.2.7, & 61B.3.2.8.
SPAR(2) Octet 1 (currently says octet 3 for some reason) 2BASE-TL Downstream training parameters 2BASE-TL Downstream training rates - 16-TCPAM	Update references in 61.4.8 as appropriate; specify that "TDIM bonding" bit shall be set to zero; move footnote (a) from Table 61B-6 to body of 61.4.8.
2BASE-TL Downstream training rates - 32-TCPAM 2BASE-TL Upstream training parameters 2BASE-TL Upstream training rates - 16-TCPAM 2BASE-TL Upstream training rates - 32-TCPAM	Proposed Response Response Status W PROPOSED ACCEPT.
SPAR(2) Octet 2 2BASE-TL Downstream PMMS parameters 2BASE-TL Downstream PMMS rates 2BASE-TL Upstream PMMS parameters 2BASE-TL Upstream PMMS rates 2BASE-TL Downstream framing parameters 2BASE-TL Upstream framing parameters	
SPAR(2) Octet 3 PMI Aggregation Discovery PMI Aggregation Variable Silent Period	

Page 118 of 146 C/ 61B SC 61B.3.1

C/ 61B SC 61B.3.1 P 600 L 16 # 41 Barry, O'Mahony Intel	C/ 61B SC 61B.3.2.6 P 626 L 1 # 381 Beili, Edward Actelis Networks
Comment Type T Comment Status D This comment is submitted on behalf of ITU-T Q4/15. Table 61B-6 in the 2BASE-TL tree defines a "variable silent period" bit; a footnote describes its functionality. In their liaison, Q4/15 notes they have recently defined functionality in a Level 1 SPar bit in Table 11.0.4.	Comment Type TR Comment Status D The ITU-T Q4/SG15 has agreed to adopt Variable Silence parameters codepoints from 802.3ah into G.994.1 (G.Handshake) at the recent meeting. Since G.994.1 is referenced by the EFM standard, there's no point for duplicating these code points. Note also that zero value of Variable silence period, currently defined in D3.1, stands for 640sec, and any other value n=163 stands for n x 10 sec, while ITU-T defines (n+1) x 10 sec for n=063.
Table 61B-92 defines a similar bit in the 10PASS-TS tree. SuggestedRemedy Remove definitions of the variable silent period bit from Tables 61B-6 and 61B-92 reference to Table 11.0.4/G.994.1 in 61.4.5 Proposed Response Response Status W PROPOSED ACCEPT. See also comment #381.	SuggestedRemedy - Remove 61B.3.2.6 and 61B.4.2.1 and Variable silence bit from tables B1B-6 and 61B-92. Reference G.994.1 instead. - Modify 45.2.1.11.2 and 45.2.1.11.3 to use (n+1) x 10 sec for n=063 definition. Proposed Response Response Status W PROPOSED ACCEPT. See comment #416
CI 61B SC 61B.3.2.1 P 601 L 11 # 20 Beck, Michael Alcatel Bell nv Alcatel Bell nv Comment Type E Comment Status D The Table caption ends with a hyphen, which is part of the expression "16-TCPA could be confusing, and it is definitely visually unpleasant. SuggestedRemedy Replace hyphen with a non-breaking hyphen in this table and the 15 following on Proposed Response Response Status W PROPOSED ACCEPT. V V V	This comment is submitted on behalf of ITU-T Q4/15. Q4/15 in their liaison requests that we reference the table in G.994.1 instead of reproducing it. SuggestedRemedy Delete Table 61B-2; insert reference to Table 11.0.3/G.994.1.
Cl 61B SC 61B.3.2.4 P 621 L 21 # 38 Beili, Edward Actelis Networks D The ITU-T Q4/SG15 has agreed to adopt PMI aggregation discovery and provide the text of text of the text of text o	Table 61B-2 for information only." This means that the EFM Draft defines the Spar(1) codepoints by reference. A copy of the table is shown for information only.

C/ 61B SC Table 61B-7 P 600 L 34 # 603 Squire, Matt Hatteras Networks	C/ 62 SC 62.1.2 P 410 L 14 # 401 Law, David 3Com				
Comment Type TR Comment Status D We should align the upstream/downstream training parameters with the E-SHDSL training parameters.	Comment Type E Comment Status D Are the objectives described here the PHY objectives or just the PMA and PMD objectives SuggestedRemedy				
SuggestedRemedy Include analagous tables to E-SHDSL downstream training and upstream training parameters NPAR(3) octets 2, 3, & 4.	If these are just for the PMA and PMD suggest that text ' for the 10PASS-TS' be change to read 'for the 10PASS-TS PMA and PMD'.				
Proposed Response Response Status W PROPOSED REJECT. In setting the training parameters, G.shdsl.bis has to take into account the legacy G.shdsl	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Apply this change to Clause 62 and Clause 63.				
annex A and annex B parameters. For annex A & B, every rate between 192 & 2304 has a bit reserved in the G.hs exchange which makes it is very inefficient. The method defined in EFM is much more efficient in terms of flexibility and the number of octets	C/ 62 SC 62.3.2 P 414 L 32 # 428 Barry, O'Mahony Intel Comment Type E Comment Status D				
exchanged. This comment is rejected because it goes half way: either adopt then entire SHDSL.bis tree or design a tree that is better than the ITU tree.	Comment Type E Comment Status D Last sentence of paragraph duplicates that in subclause 62.2.2.				
C/ 62 SC 56.1.3 P 190 L 50 # 371 Dawe, Piers Agilent	SuggestedRemedy Delete sentence.				
Comment Type E Comment Status D Please assist the chief editor with an informed remedy to this comment (repeated): In the next paragraph we have an informative sentence telling us that 2BASE-TL isn't just a	Proposed Response Response Status W PROPOSED ACCEPT.				
EFM special but has something in common with other standards. SuggestedRemedy	C/ 62 SC 62.3.4.2 P 416 L 11 # 588 Ed Eckert Ikanos Communication				
If it's not too political, insert something similar between 'This PMD' and 'uses passband': perhaps like: This PMD is derived from the VDSL transceiver specified in American National Standard T1.424 and at time of writing, under discussion as G.xxx in ITU-T. It uses passband But get the copper track to write/vet what they want to say.	Comment Type T Comment Status D Managing CE length is imperative to getting the best use of available bandwidth per environment (short vs long loops). In the current draft, there is an unnecessary restriction on the value of m which determines the CE lenght. In recognition of this, there are new proposals to do this for VDSL2.				
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Replace: "EFM introduces a new distinct PMD based on Multiple Carrier Modulation (MCM, also referred to as Discrete Multi-Tone or DMT). This PMD uses passband signaling, and supports a nominal full duplex data rate of 10 Mb/s, hence the identifier 10PASS-TS."	SuggestedRemedy Either: (1) the restrictive text be removed and the reference to 8.2.3.1 of MCM-VDSL stand as the entire text for subclause 62.3.4.2, or (2) that the sentence read: "The cyclic extension length is specified by the value of the parameter m. In 10PASS-TS, the default value of m=20 is mandatory. Values of m=10 and m=40 shall be supported options. Support for other values is out of scope."				
With: "10PASS-TS is a passband signaling system derived from the Very-high-speed Digital Subscriber Line (VDSL) standard defined in American National Standard T1.424, using Multiple Carrier Modulation (MCM, also referred to as Discrete Multi-Tone or DMT). This PHY supports a nominal full duplex data rate of 10 Mb/s, hence the identifier 10PASS-TS."	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Needs discussion in the CuSTF. It is brought to the attention of the commenter that other values of the CE can already be negotiated between link partners with the currently defined handshake parameters (see				

P802.3ah Draft 3.1 C	omments
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C/ 62 SC 62.3.4.9.4 Barry, O'Mahony	P 420 Intel	L 33	# 429	C/ 63SC 63.1.1P 434L 9# 530Schneiderheinze, BurkartInfineon Technologies
<i>comment Type</i> E typo: "10PASS-TS-C"	Comment Status D			Comment Type E Comment Status D wrong address space
uggestedRemedy change to "10PASS-TS-	O"			SuggestedRemedy correct address space from 1.30-1.42 and 1.80 to 1.100
roposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
/ 62B SC chneiderheinze, Burkart	<i>P</i> Infineon Tech	<i>L</i> nologies	# 478	C/ 63SC 63.2.2.3P 438L 23# 531Schneiderheinze, BurkartInfineon Technologies
omment Type E PMI not replaced by PMI	Comment Status D E 4 times in Annex 62B			Comment Type E Comment Status D mapping of Loop/Line attenuation missing
uggestedRemedy replace PMI by PME				SuggestedRemedy dd an entry with loop attenuation Octet #4
roposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.
/ 63 SC chneiderheinze, Burkart	<i>P</i> Infineon Tech	<i>L</i> nologies	# 476	C/ 63SC 63.2.2.3P 439L 2# 532Schneiderheinze, BurkartInfineon Technologies
omment Type E PMI not replaced by PMI	Comment Status D E twice in clause 63			Comment Type T Comment Status D unclear how to map 7 bytes to 22 bit as defined in clause 22.2.4.3.1
uggestedRemedy replace PMI by PME				SuggestedRemedy ??Discuss it on the floor
roposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Add a note to map SHDSL defined vendor ID into EFM defined vendor ID. Details to be
63 SC 63.1.1 chneiderheinze, Burkart	P 434 Infineon Tech	L 8 nologies	# 529	discussed by CuSTF.
<i>comment Type</i> E register space not correc	Comment Status D			
SuggestedRemedy change address space to	o 3.60 to 3.73			
Proposed Response PROPOSED ACCEPT.	Response Status W			

C/ 63	SC 63.3.2.4.2	P 442	L 26	# 379	
Beili. Edv	vard	Actelis Networks			

Beili, Edward

TR Comment Status D Comment Type

A 2BaseTL-R Phy is mandatory required to sustain up to 20mA of wetting (sealing) current. The original purpose for such high current was to support Metallic Loop Test (MLT), a leftover from telephony days, which is not relevant in this case since 2BaseTL-O doesn't have provision for the MLT. Most carriers today use less than 5mA of wetting current for corrosion prevention. In addition to that, 1000 Ohm resistive termination can be pretty bulky (over 4W), requiring special protection. Note also that wetting current support may not be required in many cases, while demanding bigger isolation magnetic and complicated overvoltage protection from the Phy implementations.

SugaestedRemedv

- Make wetting current an optional requirement for 2BaseTL (modifying also PICS proforma in subclause 63.4.4.2 lines 28 and 31).

- Modify clauses 63.3.2.4.2 and 63.3.2.5.2 as follows:

"The 2BASE-TL-R shall be capable of sustaining 5 mA of wetting (sealing) current. The maximum rate of change of the wetting current shall be no more than 5 mA per second. NOTE-The -R device cannot be guaranteed to operate correctly if more than 5 mA (tip to ring) is sourced."

Proposed Response Response Status W

PROPOSED REJECT.

See also comment #255.

Wetting current values were chosen to be consistent with what is currently defined in SHDSL.

CI 63	SC 63.3.2.4.2	P 442	L 28	# 255
Squire, Matt		Hatteras Netw	orks	

Comment Type TR Comment Status D

The specification of wetting current in 2BASE-TL differs somewhat from G.SHDSL in that here we're specifing a DC resistance, where the G.991.2 specs specify more on potential differences. We should have similar wording to G991.2 for consistency.

SuggestedRemedy

Replace 63.3.2.4.2 with

The STU-R (or SRU-R) shall be capable of drawing between 1.0 and 20 mA of wetting (sealing) current from the remote feeding circuit. The maximum rate of change of the wetting current shall be no more than 20 mA per second. The STU-C (or SRU C) may optionally supply power to support wetting current. When enabled, this power source should produce a nominal -48 V potential measured at ring with respect to tip. The maximum voltage of the power source (if provided) should be limited to -56.5 V. The minimum voltage should be high enough to ensure a voltage of at least -39 V at the inputs of the STU-R (or SRU-R) measured at ring with respect to tip. In no case shall the wetting current source apply a potential greater than -72 V between ring and tip. The potential at tip with respect to around should be zero or negative.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

To be discussed by CuSTF, including merits of optional vs mandatory .

Note the current text was inserted in the text by the STF as a result of comment #142 against the last draft.

If adopted by STF, edit text to remove SRU-R (repeaters out of scope) and replace STU-R and -C by 2-BASE-TL notation.

C/ 63A SC 63A.4 Schneiderheinze, Burkart	P66	54 on Technoloc	L 52	# 539
Schneidemeinze, Durkart	mmee		JICS	
Comment Type E wrong cross ref	Comment Status	D		
SuggestedRemedy change to 45.2.1.39				
Proposed Response PROPOSED ACCEPT.	Response Status	w		

C/ 63A SC 63A.4 P 665 L 26 # 540 Schneiderheinze, Burkart Infineon Technologies	C/ 63BSC 63B.3P 670L 37# 542Schneiderheinze, BurkartInfineon Technologies
Comment Type E Comment Status D 2BASE-TL PMD register settings were changed	Comment Type E Comment Status D tests are called B-1 - B-4
SuggestedRemedy adjust table 63A-2 accordingly	SuggestedRemedy change accordingly
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W PROPOSED ACCEPT.
1.81.14:8 to 1.82.1:0 would be set such that min rate = max rate = profile rate. step = 0, power and constellation per the profile.	C/ 64 SC 64.1 P 450 L 21 # 561 Cravens, George Mindspeed Mindspeed
1.83.14:8 to 1.88.1.0 set to 0	Comment Type E Comment Status D Missing "s".
C/ 63B SC 63.b4 P 672 L7 # 391 kimpe, marc Adtran Comment Type T Comment Status D	SuggestedRemedy Change " the ONU then transmit frames at wire speed"
Comment applies to table 63-B2. To stay consistent with the objectives of 2Base-TL, the margin should be changed from 6 to 5.	To " the ONU transmits frames at wire speed" Proposed Response Response Status W
SuggestedRemedy Change margin requirement from 6 to 5 dB.	PROPOSED ACCEPT.
Proposed Response Response Status W PROPOSED ACCEPT.	C/ 64 SC 64.1 P 450 L 5 # 560 Cravens, George Mindspeed
C/ 63B SC 63B.3 P 670 L 35 # 541 Schneiderheinze, Burkart Infineon Technologies	Comment Type E Comment Status D The P2MP medium IS as passive optical network (we're beyond the "under consideration" point).
Comment Type E Comment Status D reference specifiy 3 different test for 2048 kBit/s SuggestedRemedy	Delete the words "under consideration" <i>SuggestedRemedy</i> Delete the words "under consideration"
change to plural (tests) Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.

			P802.3an L	Draft 3.1 Comments			
C/ 64 SC 64.1 Cravens, George	P 450 Mindspeed	L 54	# 562	C/ 64 SC 64.1.4 Cravens, George	P 454 Mindspeed	L 5	# 565
<i>Comment Type</i> E Should say "provisior	Comment Status D ning" (not provision).			Comment Type T The newly generated	Comment Status D Annex 4A should also be refere	enced for the un	derlying MAC sublaye
SuggestedRemedy Change provision to p	provisioning			SuggestedRemedy Change " service ir	terface specified in 4.3.2."		
Proposed Response PROPOSED ACCEP	Response Status W			To " service interface Proposed Response	ce specified in 4.3.2 or 4A.3.2." Response Status W		
C/ 64 SC 64.1 Cravens, George	P 451 Mindspeed	L15	# 563	PROPOSED ACCEP		former had a d	L - 0.
Comment Type T	Comment Status D			Only one clause (eith	er 4.3.2 or 4A.3.2) should be re	ference, but not	both.
Since this subclause implies normative tex	is the overview, the word "shall' tt and generally requires a corre	sponding PICS	entry. This also	C/ 64 SC 64.24 Grow, Robert	P Intel	L	# 411
makes the last senter are no other "shalls" i	nce of the sub-clause consistan in this sub-clause).	t with the rest of	the sub-clause (there	Comment Type E D3.1 introduces new	Comment Status D text with misuse of error rate inst	stead of error rat	io.
NOTE: This is really classified it as "techn	an editorial comment, but since ical".	it deals with the	e magic word "shall", I	SuggestedRemedy Change "error rate" to	o "error ratio"		
SuggestedRemedy				Proposed Response	Response Status W		
Change the "shall be	" to "is" as shown:			PROPOSED ACCEP			
The Multi-point MAC	Control fucntionality is impleme	nted for subscri	per access decives		44		
Proposed Response	Response Status W			Location: page 461, I	ine 44		
PROPOSED REJEC				C/ 64 SC 64.2.1 Lynskey, Eric	<i>Р</i> 455 UNH-IOL	L 21	# 546
	say that unlike MAC Control sub datory for all P2MP devices.	layer, which is o	pptional, the Multi-point	Comment Type E	Comment Status D		
C/ 64 SC 64.1.2 Gramer, Glen	P 452 Teknovus	L 39	# 183		hould now be Multi-Point Trans e clause: page 455 line 21, pag		
<i>Comment Type</i> E missing period at the	Comment Status D end of a sentence			SuggestedRemedy Replace all instances	of multiplexing control with mu	lti-point transmis	sion control.
SuggestedRemedy fix per comment				Proposed Response PROPOSED ACCEP	Response Status W		
Proposed Response PROPOSED ACCEP	Response Status W						

C/ 64 SC 64.2.1 Cravens, George	P 455 Mindspeed	L 45	# 566	Cl 64 Cravens,		64.2.1.1	P 456 Mindspeed	L 49	# 568
Comment Type E	Comment Status D			Comment	t Type	т	Comment Status D		
Move the leading "or" to SuggestedRemedy	the end of the previous item.						curs when the gaurdThresho Also, insert cross-reference.		not just "some
Change item a) to " Ma and item b) to "A protoco							d occurance of "some prede s "some predefined threshold		
Proposed Response PROPOSED ACCEPT.	Response Status W			Suggester Chan		-	ONU's clocks exceeds some	predefined three	eshold."
C/ 64 SC 64.2.1.1 Brown, Benjamin	P 455 Independent	L 51	# 136	То "	. the OL	T's and th	e ONU's clocks exceeds gau	urdThreshold (se	ee 64.2.2.1).
Comment Type E	Comment Status D						d occurance of "some prede some predefined threshold		
Extra word SuggestedRemedy				Proposed PROF	,	nse ACCEPT.	Response Status W		
Replace "field. is" with "f	field."			C/ 64	SC	64.2.2	P 457	L19	# 570
Proposed Response PROPOSED ACCEPT.	Response Status W			Cravens,	Ŭ		Mindspeed		
C/ 64 SC 64.2.1.1	P 456	L 4	# 567	Comment transr		E ing[n] sho	Comment Status D uld also be included.		
Cravens, George	Mindspeed Comment Status D			Suggester insert		,	[n]," after transmitEnable[n],	in line 19.	
	value is used to calculate the			Proposed PROF		ise ACCEPT.	Response Status W		
Need to insert the word SuggestedRemedy	"timestamp" between received	d and value.							
Change " it uses the re	eceived value to create" d timestamp value to create	."		Cl 64 Cravens,		64.2.2	P 457 Mindspeed	L3	# 569
Proposed Response PROPOSED ACCEPT.	Response Status W			<i>Comment</i> The fi		E graph say	Comment Status D s the same thing four times.	Rewrite as a si	ngle sentence.
TROPUSED ACCEPT.				Suggester Repla			raph with:		
				client	s to tran	smit to its	ti-point transmission control associated MAC and subse smitENABLE signal at a time	quently to the R	
				Proposed PROF	•	ise ACCEPT.	Response Status W		

C/ 64 SC 64.		P 459	L 48	# 572	C/ 64	SC 64.2.2.3	P 461	L 24	# 138
ravens, George		Mindspeed			Brown, Be		Independent		
As Figure 64-11	Comment S of a more accurate tim shows, the localTime MAC Control Frame w	nebase" needs to	aded with the r		Trans line 3	e are several insta mitFrame state. F 8. Are these real s	Comment Status D nces where states are referre Page 462, line 2, refers to the states? What state diagram (d es and couldn't find them	forwarding state	e as does page 484,
may change any	e also seems to contro time a MAC Control l ble and unspecified" s	Frame with the	timestamp opc	ode is received, so		-	what state diagram is being es.	referenced or ch	nange the wording to
	ocalTime variable can ne ONU Control Parse occurance.				PROF	Response POSED ACCEPT	Response Status W IN PRINCIPLE.		
-	tence starting on line			-	page	-	e indicates that the Multi-poir a frame."	nt MAC Control	instance j is in a
Figure 64-11).			the OLT) by th	he Control Parser (see		462: "This functio e transmission of	n selects the next Multi-point a frame."	MAC Control in	stance allowed to
oposed Response PROPOSED AC		tatus vv			page	484: ?			
64 SC 64. own, Benjamin	.2.2.3	P 460 Independent	L 28	# 137	C/ 64 Lynskey, I	SC 64.2.2.3 Eric	<i>P</i> 461 UNH-IOL	L 3	# 545
	E Comment S uld be in alphabetical						Comment Status D able is defined as a boolean, ild be deleted.	so it cannot tak	e on an actual value
	efore nextTxTime transmitInProgress b	pefore transmitP	ending		Suggester Remo	•	The timestampDrift value is r	represented in u	nits of time_quanta."
roposed Response PROPOSED AC		tatus W			•	Response POSED ACCEPT.	Response Status W		
					C/ 64 Brown, Be	SC 64.2.2.4 enjamin	P 461 Independent	L 40	# 139
					<i>Comment</i> When	51	Comment Status D oclause, you don't need to us	e the word "sub	clause"
					Suggester Repla	•	65.2.3" with "in 65.2.3"		
					Proposed	_	Response Status W		

C/ 64 SC 64.2.2.4	P 461	L 46	# 140	C/ 64 SC 64.2.2.4 P 462 L 6 # 547
Brown, Benjamin	Independent			Lynskey, Eric UNH-IOL
Comment Type E	Comment Status D			Comment Type T Comment Status D
missing word				The SelectFrame() function is used to select one out of n frames to be transmitted for a
SuggestedRemedy				given multi-point MAC control instance. There could be several MAC Control frames along with client frames. This function chooses one to pass to the control multiplexer.
Replace "formula used	" with "formula is used"			Subclause 62.1 page 455 line 21 says that MAC control frames are given priority over
Proposed Response	Response Status W			client frames, but that does not seem to be supported in the definition of this function.
PROPOSED ACCEPT				SuggestedRemedy
	Dia	1.40	# 404	Modify the definition of the function to read: This function returns the active interface when multiple interfaces are used to signal to a single block. If both MAC client and MAC
C/ 64 SC 64.2.2.4 Kramer, Glen	P 461 Teknovus	L 46	# 184	Control interfaces be signaling at the same time, the function will return an active MAC
				Control interface. The result is not specified for the case where multiple MAC Control
Comment Type E	Comment Status D			interfaces signal at the same time, except that one of these interfaces will be made active.
Missing word				Proposed Response Response Status W
SuggestedRemedy				PROPOSED ACCEPT IN PRINCIPLE.
insert word 'is' before 'u	used'			Problems:
Proposed Response	Response Status W			
PROPOSED ACCEPT				 Whatever the SelectFrame() function returns is not used anywhere. Control Multiplexor cannot control MA DATA and MA CONTROL interfaces.
C/ 64 SC 64.2.2.4	P 462	L15	# 185	
Kramer, Glen	Teknovus	215	# 105	Editor suggests the following text:
Comment Type T	Comment Status D			This function enables the interface, which has a pending frame. If multiple interfaces have
<i>,</i> ,	for transmitPending variable. I	In figure 64-3, a	1-based arrav is	frames waiting at the same time, only one interface will be enabled. The selection criteria
used. Here is 0-based				is not specified, except for the case when some of the pending frames have Length/Type = MAC_Control. In this case, one of the interfaces with a pending MAC Control frame shall
SuggestedRemedy				be enabled.
Change subscripts to 1 change in Figure 64-9.	through N to be consistent wit	th Figure 64-3.	Make the same	
Proposed Response	Response Status W			
PROPOSED ACCEPT				

C/ 64	SC 64.2.2.7	P 467	L 1	#	548	
Lynskey, Er	ic	UNH-IOL				

Comment Type **TR** Comment Status **D**

This is a comment against figure 64-13. This state diagram will transmit any frame that it is passed as long as transmitAllowed is TRUE. It is possible that multiple TransmitFrame function calls have been made by any number of MAC

Control blocks or the MAC Client. This state diagram does not appear to prioritize these in any way or deal with what happens if more than one frame wants to be sent at the same time. Specifically, there is also no SelectFrame function in this diagram. The transmitAllowed variable is controlled by the Gate Processing block in Figure 64-29. This variable will bet set to TRUE when the START TX state is entered. Figure 64-22, the ONU Discovery processing state diagram, generates the necessary TransmitFrame function calls during the discovery process.

Looking at these three diagrams, I cannot find anything that would necessarily prevent the MAC from transmitting a MAC client frame during the discovery process. This could be a significant problem by allowing an unregistered device to transmit client frames, and to allow the device to transmit frames greater than 64 bytes in length.

SuggestedRemedy

Some sort of priority function needs to be added to this diagram that will only allow the ONU to send MAC Control frames during the discovery process and that will prioritize MAC Control frames in the appropriate manner. Will try to work on some text before meeting.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Add the following text to TRANSMIT READY state:

SelectFrame()

C/ 64 SC 64.3

P **468**

L 8

Cravens, George

Mindspeed

Comment Type E Comment Status D

Report messages are not broadcast since they come from the ONUs.

SuggestedRemedy

Change: "broadcast in the network"

to: "sent upstream from the ONU to the OLT."

Proposed Response Response Status W PROPOSED ACCEPT.

C/ 64	SC 64.3.2.3	P 469	L 15	# 125
Choi, Su-il		ETRI		

Comment Type TR Comment Status D

This caluse describes OLT may support multicast by using additional multicast MACs. Additional multicast MACs require additional LLIDs and filtering rules. However, multicast channel configuration as well as filtering and marking of frames for multicast isn't defined in Clause 65.1.3.3.2

SuggestedRemedy

Suggest a solution for multicast channel configuration as well as filtering and marking of frames for multicast. Attached file "choi_p2mp_1_0304.pdf" suggests a new variable "LGID(logical group identifier)" for grouping of some logical ports (LLIDs). Attached file "choi_p2mp_2_0304.pdf" shows the changes of the draft based on the suggested multicast solution.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This is a significant change at a very late stage. The decisison is pending group discussion.

C/ 64	SC 64.3.3	P 469	L 45	#	186
Kramer, Gle	n	Teknovus			

Comment Type E Comment Status D

This subclause is inconsistent in naming MPCP messages. In various places it uses Register_Reg and REGISTER_REQ.

SuggestedRemedy

Use REGISTER_REQ for consistency

Proposed Response Response Status W

PROPOSED ACCEPT.

574

C/ 64 SC 64.3.3.3 P 473 L 24 # 576 Cravens, George Mindspeed Mindspee	C/ 64 SC 64.3.3.4 P 473 L 40 # 141 Brown, Benjamin Independent
Comment Type T Comment Status D To allow wraparound of both a and b when comparing their values, "split horizon" calculations must be used. Generically, "a is less than b" is defined as "a < b =< a + ((maxvalue of A + 1)/2).	Comment Type E Comment Status D typo SuggestedRemedy replace "sendin" with "sending" Proposed Response Response Status W
See 61.2.2.4, page 369 for an example.	PROPOSED ACCEPT.
SuggestedRemedy Change the last two sentences (Starting with "The comparison is made")	C/ 64 SC 64.3.3.5 P 473 L 50 # 142 Brown, Benjamin Independent
to use the above language (or similar verbage that gets the point across).	Comment Type TR Comment Status D
Proposed Response Response Status W	MACR and MACI aliases are used in the state diagrams but are not defined anywhere.
PROPOSED REJECT. Suggested text is even more confusing. As an example, consider 4-bit values for a and b.	SuggestedRemedy Add the following aliases alphabetically in this subclause:
A = 14, b = 2	MACI - Alias for MA_CONTROL.indication MACR - Alias for MA_CONTROL.request
we have: 14 < 2 <= 14 + (15+1)/2 14 < 2 <= 6 So is it true or false?	Proposed Response Response Status W PROPOSED REJECT. These abreviations were moved to section
Existing text is correct. It assumes that a and b can be no more than half cycle apart (which	64.1.5 State diagram conventions
is (maxvalueA+1)/2). Same example (in binary now):	C/ 64 SC 64.3.3.5 P 473 L 53 # 143 Brown, Benjamin Independent Independent 143
a = 1110	Comment Type TR Comment Status D
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Each of these primitives is followed by a list of parameters not operand lists. I debated over suggesting a major rewording of this section so that rather than define each primitive multiple times, you simply reference the primitive in 2.3.3.2 then here describe only the operand lists for each opcode. I decided not to push this as I think what you have here is adequate. However, since you are describing service primitives, the items in each primitive are parameters not operand lists.
Comment Type E Comment Status D	SuggestedRemedy
Missing "g" SuggestedRemedy	For each primitive here, in 64.3.4.5 and 64.3.5.5, replace "This primitive takes the following operand list" with "This primitive takes the following parameters"
Change "sendin" to "sending" Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.

			P802.3ah [Draft 3.1 Co	mments			
C/ 64 SC 64.3.3.5	P 474	L 54	# 188	C/ 64	SC 64.3.5.3	P 487	L 37	# 578
Kramer, Glen	Teknovus			Cravens,	George	Mindspeed		
Comment Type E Incorect sentence.	Comment Status D				alues of A and B	Comment Status D (used in the max() an min fun		
SuggestedRemedy Remove word 'is'. The s	same typo is on page 475, line	-4			comment on 64.3.3	be changed to require split ho	orizon calculation	ns.
Proposed Response	Response Status W			Suggeste		5.0		
PROPOSED ACCEPT.				00		are not capable of rollover, t	hen this should	be stated.
C/ 64 SC 64.3.3.6 Kramer, Glen	P 477 Teknovus	L 20	# 189			are capable of rollover, then ewritten to require split horizo		the max{} and min{}
Comment Type T inconsistent use of varia	Comment Status D able start. It is also refered to	as start_time a	nd startTime.	•	Response POSED ACCEPT	Response Status W IN PRINCIPLE.		
SuggestedRemedy Use 'start' on line 20 an	id line 24				ions min(a,b) amo moved.	ł max(a,b) are not used anyw	here in the state	e diagrams and should
Proposed Response PROPOSED ACCEPT.	Response Status W					ns use a <b, a="">b, a<=b, a>=b ons, only the a<b defined.<="" is="" td=""><td>to compare cycl</td><td>lic time values in many</td></b,>	to compare cycl	lic time values in many
C/ 64 SC 64.3.3.6	P 479	L 15	# 187	Add o	lefinitions for the r	est of them in terms of a <b:< td=""><td></td><td></td></b:<>		
Kramer, Glen	Teknovus				is the same as !(,		
Comment Type TR	Comment Status D				is the same as ! is the same as !			
to an ONU and is set fo	er is used incorrectly. It starts or 10 msec. However, there is n 10 msec away. This could le	no requirement	that the grant start			ection 64.1.5 State diagram o	conventions	
and geregistration cycle				C/ 64	SC 64.3.5.6	P 490	L1	# 668
SuggestedRemedy				Dawe, Pie	ers	Agilent		
ONU_timer is not necessary at all. OLT can easily calculate the end time of the grant. If a REGISTER_ACK is not received by this time, then deregister the ONU.				Comment Line v	t <i>Type</i> E with just a full stop	Comment Status D		
place the following code in state WAIT FOR REGISTER_ACK: grantEndTime = start[0] + length[0] + RTT					dRemedy			
use the following label f DEREGISTER: localTime = grantEndTi	for the transition from WAIT F	OR REGISTER	_ACK to		Response POSED ACCEPT.	Response Status W		
Proposed Response PROPOSED ACCEPT.	Response Status W							

				P802.3ah I	Draft 3.1 Comme	ents				
C/ 64 Lynskey, Eric	SC 64.3.6.1	P 493 UNH-IOL	L 44	# 544	CI 64 S Lynskey, Eric	C 64.3.6.1	P 494 UNH-IOL	L 8	# 549	
laserOnT SuggestedRe Change t Proposed Re	tions for laser_ Time and laser(Time dy to laserOnTime	Comment Status D on_time and laser_off_time. DffTime. and laserOffTime Response Status W	Per 64.3.5.1 I th	ink you want to user	contains 4 are there. aren't inclu zero. This should	MPCPDU si grants. The The number ded in the fra	Comment Status D hould not have a variable size actual size of the frame will b of grants is already contained ame the contents of the start the problem of assigning the st	e 64 bytes no r d in a field, and time and length art and length	natter how many grants for all the grants that fields should be set to values in figures 64-27	
Cl 64 Choi, Su-il Comment Ty	SC 64.3.6.1	P 493 ETRI Comment Status D	L 47	# 123	 and 64-28 when they don't really exist. Currently, if you only want to send a single grather the contents of grants 2, 3, and 4 will be filled with PAD by the MAC, the contents of ware unspecified. SuggestedRemedy Fix the length of the GATE MPCPDU so that there will always be 13 bytes of pad added 					
Because	Grant #n Leng "Grant #n Sta thin the same	th includes laser_on_time, s tr Time < Grant #n+1 Start Ti GATE MPCPDU.			the MAC. Proposed Resp	The contents	s of unused fields should be s <i>Response Status</i> W IN PRINCIPLE.		bytes of pad added by	
Change a Time". A > Grant #	above condition nd, append add	n as "Grant #n Start Time + C ditional condition as "When G e, then Grant #n+1 Start Time .ength."	Grant #n Start Tin	ne + Grant #n Length	syncTime f grant. In no	ield. In the d ormal GATE,	he field locations; however, th iscovery GATE, this filed is lo there is the second grant follo	cated immedia owing the first g	tely following the first grant.	
Proposed Re	sponse SED REJECT.	Response Status W				m would not normal GAT	have existed, if separate forr E.	nats were spec	ified for discovery	
	revious discuss (See state dia	sions, the task force has deci gram 64-29)	ded that grants t	o the same LLID may	This comm	ent is pendir	ng further discussion.			

C/ 64	SC Figure 64-12	P 466	L 24	# 573
Cravens.	George	Mindspeed		

Cravens, George

Comment Type **T** Comment Status D

Is the OLT Control Multiplexer really intended to filter transmit frames to prevent unsupported opcodes from being transmitted?

This seems very wrong, and may cause major headaches in the future since this would prevent a compliant design from ever supporting any new opcodes. Since PICS entry SM4 makes compliance mandatory, a "user friendly" design that allows upper layers to send whatever opcodes they desire would be non-compliant.

Also, if the filtering function is to remain, how is the errant frame flushed? It seems that simply returning to the Init state without setting transmitinProgress true and doing a dummy TransmitFrame() may cause undesirable results (a clogged MAC client).

This is potentially very broken, and probably deserves a TR comment, but I'll call it a "T".

SuggestedRemedy

Either:

1) (MUCH preferred) Delete the condition "(supported opcode)" from the two exit transitions from the PARSE OPCODE state.

or:

2) (Seems ungood) Make sure that when the Control Multiplexer filters transmit frames (based on opcodes), that the handshaking is done properly so that the offending frame is not stuck in the MAC client.

Also, if Tx frames are going to be dropped, an error must be signalled/counted somewhere (silently dropping frames is VERY bad and REALLY annoys those who have to debug the system), and a NOTE should be added to make it very clear that this is the intended (and in fact, mandated) behavior of the device.

Proposed Response Response Status W

PROPOSED ACCEPT.

Use proposal #1

C/ 64	SC Figure 64-13	P 467	L 19	# 5	575
Cravens,	George	Mindspeed			

Comment Type т Comment Status D

Same as the comment on Figure 64-12, only this time, for the ONU:

Is the ONU Control Multiplexer really intended to filter transmit frames to prevent unsupported opcodes from being transmitted?

This seems very wrong, and may cause major headaches in the future since this would prevent a compliant design from ever supporting any new opcodes. Since PICS entry SM5 makes compliance mandatory, a "user friendly" design that allows upper layers to send whatever opcodes they desire would be non-compliant.

Also, if the filtering function is to remain, how is the errant frame flushed? It seems that simply returning to the Init state without setting transmitinProgress true and doing a dummy TransmitFrame() may cause undesirable results (a clogged MAC client).

This is potentially very broken, and probably deserves a TR comment, but I'll call it a "T".

SuggestedRemedy

Either:

1) (MUCH preferred) Delete the condition "(supported opcode)" from the two exit transitions from the PARSE OPCODE state.

or:

2) (Seems ungood) Make sure that when the Control Multiplexer filters transmit frames (based on opcodes), that the handshaking is done properly so that the offending frame is not stuck in the MAC client.

Also, if Tx frames are going to be dropped, an error must be signalled/counted somewhere (silently dropping frames is VERY bad and REALLY annoys those who have to debug the system), and a NOTE should be added to make it very clear that this is the intended (and in fact, mandated) behavior of the device.

Proposed Response Response Status W

PROPOSED ACCEPT.

Accept proposal #1.

C/ 64 SC Figure 6		L 46	# 564	C/ 64		General	P 450	L	# 99316
Cravens, George	Mindspeed			Grow, Rob	pert		Intel		
Comment Type E	Comment Status D			Comment		TR	Comment Status A		D3.0 #55
The arrow for Receivel shown).	Frame() should be pointing in	to the Control I	Parser (not out as				multi-point MAC protocol is a P defines its own MAC proto		
SuggestedRemedy				MAC	is confus	ing and d	oes the implementer a disse		
,	ReceiveFrame() to an "up" arr	ow (pointing in	to the Control Parser	specif	ication m	nethod.			
block).		on (pointing in		Suggestee					
roposed Response	Response Status W			Simpl	ify the sp	ecificatio	n of P2MP by defining its MA	C protocol dire	ectly.
PROPOSED REJECT.				Proposed	Respons	se	Response Status U		
This commont to once	ars every several meetings. Th	o orrowo for Tr	anomitErama() and	ACCE	EPT IN P	RINCIPLE	Ξ.		
	both point down to emphasize th						a P2MP-specific, thin full-dup tion of the P2MP/OAM motic		
C/ 64 SC figure 64 Cravens, George	-6 P 457 Mindspeed	L 45	# 571				CP as specified in clause 64 s requested by the comment		IAC will simplify the
Comment Type E	Comment Status D Frame() should be pointing in	to the Control	Parser Block	Passe	ed by acc	laimation			
				C/ 65	SC 6	65.1	P 506	L 12	# <u>99307</u>
SuggestedRemedy	ReceiveFrame() to an "up" arrov	w (nointing into	the Control Parser	Thompsor	n, Geoffre	еу	Nortel		
block).				Comment	Туре	TR	Comment Status R		D3.0 #79
Proposed Response PROPOSED REJECT. See #564	Response Status W			violati clause "The l	on of the e 6.2.1 S MAC sub	e following ervice accolorities action of the second secon	is extension to emulate point text extracted from the Over cess points (SAPs) vides a single MAC service a in an end station."	rview and Arch	itecture, IEEE Std 802
							vides an interface port to a si violation of the 5 Criteria co		
				Suggestee	dRemedy	V			
				Alter	draft to re	emain with	nin original commitment.		
				Proposed REJE		se	Response Status U		
				as an provid	interface les an in	e port to th terface po	AC sublayer provides a singl the LLC sublayer in an end sta rt to a single MAC station, r 802 networks.	ation." AND "Th	he Physical layer

P2P emulation concept is required for interworking with 802 Networks, and is consistant with compatibility requirements undertaken by the 802.3ah project.

C/ 65 SC 65.1.3.2 Dawe, Piers	P 511 Agilent	L 37	# 368	C/ 65 SC 65.2.2 Kramer, Glen	.2 P 517 Teknovus	L 30	# 191
Comment Type T This use of SPD clash 65.1.3.2.1).	Comment Status D nes with the definition of SPD	in 1.4.261 (it's th	e /S/ you refer to in	Comment Type E Typo in section title SuggestedRemedy	Comment Status D		
SuggestedRemedy Use a different name t	for your 'SPD'.				_		
roposed Response PROPOSED ACCEPT	Response Status W			Proposed Response PROPOSED ACCEI	Response Status W		
Rename SPD to SLD, 65 SC 65.1.3.3	Start LLID Delimiter	L11	# 124	C/ 65 SC 65.2.2. Dawe, Piers	.2 <i>P</i> 517 Agilent	L 31	# 670
hoi, Su-il	ETRI Comment Status D	211	π 124	Comment Type E Strange character (p	Comment Status D		
In subclause 64.3.2.3,	additional multicast MACs are multicast_llid individually. H			SuggestedRemedy			
uggestedRemedy Add additional compa the multicast Ilids, the	rison as ", or the received lo	ogical_link_id ma	tches 0x7FFF or one of	Proposed Response PROPOSED ACCEI			
roposed Response PROPOSED REJECT	Response Status W	ura addition		Cl 65 SC 65.2.2. Lynskey, Eric Comment Type E	2.1 P 517 UNH-IOL Comment Status D	L 51	# <u>543</u>
•	is past deadline for new feat			Typo for variable na	me. Subclause 64.5.3.1 refers	to it as laserOnTi	me.
65 SC 65.2.2.1 awe, Piers	P 516 Agilent	L1	# 669	SuggestedRemedy Change laser_on_tir	me to laserOnTime		
<i>comment Type</i> E Line with just a full sto	Comment Status D			Proposed Response PROPOSED ACCEI	Response Status W		
SuggestedRemedy Take out preceding lin	e feed?						

P802.3ah Draft 3.1 0	Comments
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C/ 65	SC 65.2.2	21	P 517	L 52	# 190	C/ 65	SC	65.2.3	P 519	L 36	# 192
Kramer, G		. 2. 1	Teknovus	L JZ	# 190	Kramer. G		00.2.0	Teknovus	2.50	π 132
Comment		Comme	ent Status D			Comment		т	Comment Status D		
The si	ze of the FIF0) buffer shall b	be such that the tot otional FEC functio			If FEC	is imp hission	lemented,	the Data Detector block perfo the necessary space at the e		
turned		roach will only	ay result in data tra work if Data Deteo			Suggested	Reme		rrect. Data Detector does not	control MAC ar	nymore
Suggested	dRemedy										
Remo	ve this senter	se.				Proposed	,		Response Status W		
	Response OSED ACCE		se Status W					ACCEPT.		1.54	"
PROP	OSED ACCE	P1.				Cl 65 Dawe, Pier		65.2.3.3.4	Agilent	L 54	# 673
2/ 65 Dawe, Pie	SC 65.2.2	.3	P 518 Agilent	L 54	# 671	Comment		Е	Comment Status D		
Comment	Туре Е	<i>Comme</i> stop, empty lir	ent Status D			1. On l Suggested					
Suggested Take o	-	two line feeds	?			Proposed			Response Status WIIN PRINCIPLE.		
	Response OSED ACCE		se Status W			Remov					
C/ 65	SC 65.2.2		P 520	L 23	# 672	C/ 65 Lior Kherm		65.2.3.3.4	P 523 Passave	L 46	# 182
awe, Pie	rs	-	Agilent	-		Comment		т	Comment Status D		
Comment Reed	51	Comme eed-Solomon?	ent Status D ?			For a C	device C the F	with FEC t EC layer g	he PCS does not see the unp enerates Idles for the PCS (1	hat at least was	s at diagram 65-13
Suggested Choos							ppen a	and there is	FEC_TFEC and should be act no generation of FALSE_CA		
Proposed	Response	Respons	se Status W			Suggested	Reme	dy			
-	OSED ACCE Solomon	PT IN PRINCI	PLE.						in lines 46-48. Add the transi is received.	mission of Idles	to the diagram 65-
						Proposed PROP	•	nse ACCEPT.	Response Status W		

Page 135 of 146 C/ 65 SC 65.2.3.3.4

C/ 65 SC 65.3 Dawe, Piers	P 532 Agilent	L 37	# 674	<i>Cl</i> 65 Dawe, Pie	SC 65.3.2	P 533 Agilent	L1	# 367
<i>Comment Type</i> E Two spaces between 'P	Comment Status D MA and 'for'?			<i>Comment</i> typo	Туре Е	Comment Status D		
uggestedRemedy				Suggested -U sho	dRemedy ould be -D.			
roposed Response PROPOSED ACCEPT.	Response Status W			•	Response POSED ACCEPT.	Response Status W		
/ 65 SC 65.3.1 awe, Piers	P 528 Agilent	L 14	# 99308	<i>Cl</i> 65 Dawe, Pie	SC 65.4.2.2	P 534 Agilent	L 39	# 675
omment Type TR Need to define the PMA	Comment Status A	own in fig 65-4.	D3.0 #381	<i>Comment</i> Font s	<i>Type</i> E size not consistent	Comment Status D		
uggestedRemedy In sub-subclause, for P2 laser control formally: 'The following additiona	X-U PMA (see another comn I primitives is defined:	ent), define this	PMA primitive for	•	dRemedy Response POSED ACCEPT.	Response Status W		
' The semantics of the se receipt.	ervice primitive are x(y). Exp	lanation, When	generated, effect of	<i>Cl</i> 65 Dawe, Pie	SC 65.4.4	P 535 Agilent	L 39	# 676
stated, consistent with S	Response Status U E. s discussions PMA tunneling SD. The figure 65-4 is to be) primitive going around PMA	edrawn to show	1 2	Comment Other 65.4 Suggested	clauses have atta	Comment Status D Inched the copyright release to t	he second lev	rel subclause title e.g
65 SC 65.3.1 awe, Piers comment Type TR	P 532 Agilent Comment Status D	L 43	# 323	•	Response POSED ACCEPT.	Response Status W		
	mitive. It's just housekeeping lear my TR 381 against D3.0		nade to do it in other	<i>Cl</i> 65 Dawe, Pie	SC 65.4.4.7	P 537 Agilent	L 22	# 369
IggestedRemedy Insert new subclause: 65.3.1.1. Physical Medi	um Attachment (PMA) subla	ver interfaces		Comment Need	51	Comment Status D ry for OLT's CDR lock timing		
In addition to the primition PMD_SIGNAL.request	ves of Clause 36, the following is received from the PCS and	ng primitive is de I passed in time	y fashion and without	Suggested Add a	dRemedy nother PICS entry	<i>.</i>		
modification to the PMD. The semantics are PMD_SIGNAL.request(tx_enable). The tx_enable parameter can take one of two values, ON or OFF. This primitive controls PMD emission of light. It is generated by the PCS's data detector (see 65.2.2.2.3) and the effect of its receipt is defined in 60.1.5.3.					Response POSED ACCEPT.	Response Status W		
Proposed Response PROPOSED ACCEPT.	Response Status W							

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

Page 136 of 146 C/ 65 SC 65.4.4.7

C/ 66 SC

375

Thompson, Geoffrey

Comment Type TR Comment Status D

Changes have been made for 100 Mb/s that violate the compatibility promises commited to in the 5 Criteria presentation that added 100 M to the project:

1

Р

Nortel

Compatibility

100BASE-X PCS & PMA assumed, and the 802.3 MAC

- No changes whatsoever to the MAC
- PHY identical to current 100Mbps Std except for a new PMD
- No change to Clause 24
- Retain all state machines, 4B/5B coding etc. of 100BASE-X o Only need to extend Clause 26, 100BASE-FX PMD, to include SMF
- o Physical medium compatibility through SMF
- Compatible with existing 1000BASE-LX

- Provides upgrade paths to higher speeds and multiple wavelengths, with fiber plant untouched

SuggestedRemedy

Remove all changes to 100BASE-X other than PMD optical changes to bring the proposal back into line with the 5 Criteria Compatibility promises made when 100 M was added to the project.

Proposed Response Response Status W

PROPOSED REJECT.

Promises made by a presenter back in St. Louis are in no way binding on the group. The text referenced is from a presentation by Ulf Jonsson, made at a Call For Interest, archived in the file:

http://www.ieee802.org/3/smfx_study/public/jonsson_1_0302.pdf

It was never adopted by the task force, and is not binding on the task force.

The baseline presentation on the subject is archived in the file:

http://www.ieee802.org/3/efm/baseline/jonsson_1_0502.pdf

This presentation also assumes that the 100BASE-X PCS is retained unchanged, but decisions to modify the PCS have been made since the baseline was adopted, and these are reflected in the approved text of the draft.

The PAR and 5 Criteria for EFM never claimed that the 100BASE-X PCS would be retained unchanged. The changes that we have made to the 100BASE-X PCS for the sake of unidirectional OAM PDU transmission were approved by the WG in the course of the WG ballot. This change was approved in Italy in September of 2003 in the following presentation:

http://www.ieee802.org/3/efm/public/sep03/frazier_1_0903.pdf

C/ 66 Dawe, Piers	SC	66	P 5 3 Aailen	 L1	#	99312
Comment Ty	pe	TR	Comment Status			D3.0 #380
'Don't me	ess w	ith the	legacy Ethernet.'			

The 'required' aspect of this clause is unworkable, as it tries to make a tight association between PMD type, network type ('access' vs. 'campus') and e.g. PCS functionality. See my comment against 57.1.2 for more explanation.

Further, this clause affects 10G Ethernet, which doesn't seem to be part of 'Ethernet in subscriber access' at all - which subscribers get access to that sort of 'broadband' access!? And it tries to do it in a way which is controversial (see TRs against previous drafts) and doesn't make sense to me.

The proposed changes would encourage pointless and misleading behaviour which is presently forbidden: transmitting to a station which is sending 'remote fault' or 'far end fault indication' - saying it can't hear you. If this is forbidden now, we would need a reason to overturn the rules.

Clause 66 RS, PCS and PMA are shown as optional in Table 56-2. That's as it should be (except for 1000BASE-PX-D, PON OLT).

SuggestedRemedy

See attached file for proposed revision of clause 66, including reasons why. http://www.ieee802.org/3/efm/public/comments/d3_0/pdfs/dawe_2_0104.pdf ?

Proposed Response Response Status U

ACCEPT IN PRINCIPLE.

If you want to use the 1000BASE-LX10, or other EFM specific PHY types, then the PHY must use the PCS/RS defined in this clause. If you don't use this PCS/RS then the PHY type is not specified.

The PMD can be fully compliant with 802.3ah and it depends on how it is used to determine what its PHY type is called.

Changes to make

Accept text changes to last paragraph before 66.1

66.2.1 - replace "regardless of the value of link_status" with "regardless of whether the PHY has determined that a valid link has been established"

Same change to 66.2.2

P802.3ah Draft 3.1	Comments
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C/ 66 SC 66	P 539	L1	# 677	C/ 66
Dawe, Piers	Agilent			Brown, B
Comment Type E 10Gb/s needs a sp	Comment Status D			Commen wron
SuggestedRemedy "10 Gb/s. Also title 66.4.1, several mo	e of 66.3, twice in 66.3.1, three tin re…"	nes in 66.3.2, tit	le of 66.4, once in	Suggeste Repla
Proposed Response PROPOSED ACC	Response Status W			Proposed PRO
C/ 66 SC 66	P 540	L1	# 557	<i>Cl</i> 66 Dawe, Pie
Booth, Brad	Intel			Commen
Comment Type TR Paragraph makes words.	Comment Status D use of "should" and "must". IEEE	802.3 tries to a	avoid the use of such	Unidi netwo do a
"should" to be "sha	n 2nd sentence to "may". In the 3 all". In the 4th sentence, change b tence to be a "shall".			can't mech "tradi speci 100B
Proposed Response PROPOSED ACC	Response Status W			LX10 itself
PICS entry.	pting these changes but these 5 r use before 66.4.4.1 with title: "Mai		·	Suggeste Char subso 'This unidii
protocols"		0		Proposed
	dentical to the others in this section al mode enabled - 66 - Full duple		0,	PRO
OAM or 1000BASI	E-PX-D) and not 1000BASE-PX-L	I - M - Yes[], N	o[]	There
Cl 66 SC 66 Dawe, Piers	P 540 Agilent	L 8	# 340	C/ 66
Comment Type E	Comment Status D			Dawe, Pie
pert SuggestedRemedy	Comment Status			Commen Pleas chan
part				Suggeste
Proposed Response PROPOSED ACC	Response Status W EPT.			Chan frame
				Proposed PRO

Cl 66 Brown, Be	SC 66.0 enjamin	P5 Indep	40 endent	L 8	# 144	
Comment wronę	<i>Type</i> E g word	Comment Status	D			
00	dRemedy ace "pert" with "pa	rt"				
'	Response POSED ACCEPT.	Response Status	W			
C/ 66 Dawe, Pie	SC 66.1.1	P 5. Agiler		L 19	# 342	
Common	Tune TD	Common the Charles	-			

Comment Type **TR** Comment Status **D**

Unidirectional is of very minor use even for OAM. It doesn't 'support subscriber access networks', they'll work without it. In general it duplicates PHY layer mechanisms that will do a better job of protection switching, being hardware oriented and so can be faster. It can't work on some PHYs so it's not as generic as hoped. But maybe having both mechanisms is useful for managing complex multi-hop networks - which can exist in "traditional campus/industrial/core/metro markets too. There's nothing 'subscriber access' specific about this need.

100BASE-X optical has a suitable remote fault indication (FEFI) already, and 100BASE-LX10 type ports have been shipping for years. Let's not foul it up with a new feature, which itself need not be mandatory.

SuggestedRemedy

Change 'This subclause specifies changes to the 100BASE-X PCS and PMA for support of subscriber access networks.' to

'This subclause specifies optional variations to the 100BASE-X PCS and PMA for unidirectional transport of OAM frames.'

Proposed Response Response Status W

PROPOSED REJECT.

There is insufficient support in the task force or working group to change this feature from mandatory to optional.

C/ 66 SC	66.1.1	P 540	L 20	# 341
Dawe, Piers		Agilent		

Comment Type **TR** Comment Status **D**

Please state the much less contentious proximate technical reason for these proposed changes. As in the clause title...

SuggestedRemedy

Change 'for support of subscriber access networks.' to 'for unidirectional transport of OAM frames'.

Proposed Response Response Status W PROPOSED ACCEPT.

Page 138 of 146 C/ 66 SC 66.1.1

C/ 66	SC 66.1.1		P 540	L 21	# 343	C/ 66	SC	66.1.2	P 540	L 26	# 344
Dawe, Piers	S		Agilent			Dawe, Pie	rs		Agilent		
Comment T	Type TR	(Comment Status D			Comment	Туре	TR	Comment Status D		
			hanges to the existing':			Remo	ving du	plication ar	nd contentious (marketing?)	claim.	
			auses 24 and 66 will botl mainstream Ethernet 'le			Suggestee	dReme	ly			
			by ATM or EFM or som		ing manor naonon		<i>,</i>		X PCS and PMA for subscril		
SuggestedF	Remedy								100BASE-X PCS specified in e following exception: The 10		
			s to the existing 100BAS	SE-X PCS and P	IA for legacy ethernet	netwo	rks has	the ability	'		
	cribed in Cla ese are varia		n the 100BASE-X PCS a	and PMA defined	in Clause 24.'				able 100BASE-X PCS and P specified in 24.2 and the 10		
Proposed R	Response	R	esponse Status W						they have the ability'		
	OSED ACCE					Proposed	Respor	nse	Response Status W		
	00.004.4		D. 5.40	1.04	# 0.0	PROF	POSED	REJECT.			
<i>CI</i> 66 Dawe, Piers	SC 66.1.1		P 540 Agilent	L 21	# 349	It nee	ds to be	made clea	ar that it is mandatory that all	subscriber acc	ess PHYs that could
			Comment Status D			otherv	vise use	e Clause 24	4 shall instead use the 66.1 F	PCS/PMA.	
Comment T	<i>Type</i> E hernet a prop					C/ 66	SC	66.1.2.2	P 540	L 50	# 373
		or nam				Thompsor	n, Geoff	rey	Nortel		
SuggestedF Give it a	-	r here	, in 66.2.1 and elsewher	٩		Comment	Туре	Е	Comment Status D		
Proposed R	•		esponse Status W	0.					t organization of the text is co	onfusing to man	y who are not
	SED ACCE					intima	tely fan	niliar with 1	0BASE-T.		
									le paragraph confuses that t		
C/ 66	SC 66.1.2		P 540	L 26	# 345	transn	nit disal	ole are a si	ngle function rather than 2 e	ntirely separate	functions.
Dawe, Piers			Agilent			Insert	a paraç	graph split	as indicated below.		
Comment T			Comment Status D MII' could be misleading:	an the DCC has	on MIL if it transmite	Suggestee	dReme	ly			
from the	e MII, the PO	S is tra	insmitting towards its ow itting' in two directions.						plemented by noting the occ the model of 10BASE-T. Th		
SuggestedF	Remedy					SHOL	JLD BE	SPLIT INT	O TWO PARAGRAPHS, I.E	.:	
Delete '	'from the MII	. Simil	arly 'from the GMII' in 66	5.2.2.		"O-II'-	ion det	antion in i	plamantad by pating the sec	www.	or receptions during
Proposed R	•		esponse Status W						plemented by noting the occ the model of 10BASE-T.	surrence of carri	er receptions auring
PROPC	OSED ACCE	ΡΙ.				The ir	dication	n of link_sta			
						(A Ma	int Req	uest has be	een entered to fix this in the	current standard	d.)

PROPOSED ACCEPT.

CI 66	SC 66.1.2.3	P 541	L 51	# 34	46
Dawe, Piers		Agilent		-	

Comment Type TR Comment Status D

If we agree that OAM frames indicating remote fault embedded in PHY layer RF are good, or acceptable, for 10G then the same is true for 100BASE-X, except it's called FEFI rather than RF.

I do think that fast, hardware oriented, already standardized, protection switching will be needed in access networks in particular to carry time-sensitive traffic like voice and video, especially on the slower link types.

As FEFI is optional, the remedy below behaves as the current draft 3.1 when FEFI is turned off. Conveniently, 100BASE-FX doesn't have auto-negotiation. Not sure if we need a whole nibble of guard band (see suggested remedy); willing to optimise that.

SuggestedRemedy

Change 'Far-End Fault Generate simply passes tx_code-bits to the TX process when signal_status=ON or when mr_unidirectional_enable=TRUE. When signal_status=OFF and mr_unidirectional_enable=FALSE, it repetitively generates each cycle of the Far-End Fault Indication until signal_status is reasserted or mr_unidirectional_enable is set to TRUE.' to:

'Far-End Fault Generate simply passes tx_code-bits to the TX process when signal_status=ON. When signal_status=OFF and mr_unidirectional_enable=FALSE, it repetitively generates each cycle of the Far-End Fault Indication until signal_status is reasserted or mr_unidirectional_enable is set to TRUE. When signal_status=OFF and mr_unidirectional_enable=TRUE, it repetitively generates each cycle of the Far-End Fault Indication, interrupted by any frames, until signal_status is reasserted. There is least one nibble (5 bits on the line) of ONEs between a ZERO in the Far-End Fault Indication stream and the start of stream delimiter to avoid error propagation'. Change the Far-End Fault Generate state diagram accordingly.

Proposed Response Response Status W PROPOSED REJECT.

as it could potentially break the PCS/PMA interface.

Your suggested remedy is incomplete. There would need to be an additional signal added between the Transmit state diagram (Figure 24-8) and the Far-End Fault Generate state diagram (Figure 24-16) to tell the latter state machine when the former machine was generating a packet. There is no obvious signal currently in existence to do this. At this point in the process, making a change of this magnitude without adequate review is unwise

C/ 66	SC 66.2.1	P 542	L 41	# 347
Dawe, Pi	ers	Agilent		

Comment Type TR Comment Status D

Similarly to one of my comments against 66.1.1: Unidirectional is less valuable than avoiding retrospective changes, allowing 1000BASE-LX10 to be used in traditional Ethernet, allowing CO Ethernet equipment to straddle the divide between traditional Ethernet and access Ethernet, not fragmenting the market, and not causing possible interoperability problems. This new way of signaling RF has to be optional and should not if practicable foul up the existing way. Also, stating the much less contentious proximate technical reason for these proposed changes.

SuggestedRemedy

Change 'This subclause specifies changes to the 1000BASE-X PCS for support of subscriber access networks.' to

'This subclause specifies optional variations to the 1000BASE-X PCS for unidirectional transport of OAM frames.'

Proposed Response Response Status W

PROPOSED REJECT.

There is insufficient support in the task force or working group to change this feature from mandatory to optional.

CI 66	SC 66.2.1	P 542	L 42	# 348
Dawe, Piers		Agilent		

Comment Type TR Comment Status D

We should not talk about 'changes to the existing': clause 36 isn't changing, and when this draft standard is ratified, clauses 36 and 66 will both be 'existing' on an equal footing. It doesn't seem right to call mainstream Ethernet 'legacy' as if it's losing market traction and going to be replaced by ATM or EFM or something. Also, should give clause 37 a mention.

SuggestedRemedy

Change 'These are changes to the existing 1000BASE-X PCS for legacy ethernet as described in Clause 36.'

to: 'These are variations on the 1000BASE-X PCS defined in Clause 36 and Clause 37.'

Proposed Response Response Status W PROPOSED ACCEPT.

CI 66	SC 66.2.1	P 542	L 43	#	350
Dawe, Piers		Agilent			

Comment Type **TR** Comment Status **D**

Need to add a statement saying when this mode or type is applicable. It can't be required for 1000BASE-LX10, there's too much stuff out there. If it causes an interop problem, it shouldn't be allowed on 1000BASE-LX10 because that's meant to be connected to 1000BASE-LX.

SuggestedRemedy

Add sentence 'They are optional for P2P 1000BASE-X PHYs, mandatory for 1000BASE-PX-D and optional but to be used with caution for 1000BASE-PX-U.' or: 'They are optional for 1000BASE-LX10 and 1000BASE-BX10, mandatory for 1000BASE-PX-D, optional but to be used with caution for 1000BASE-PX-U and not applicable to other PHY types.' or: 'They are optional for 1000BASE-BX10, mandatory for 1000BASE-PX-D, optional but to be used with caution for 1000BASE-BX10, mandatory for 1000BASE-PX-D, optional but to be used with caution for 1000BASE-PX-U and not applicable to other PHY types.'

Proposed Response Response Status W

PROPOSED REJECT.

There is insufficient support in the task force or working group to change this feature from mandatory to optional.

CI 66	SC 66.2.2	P 542	L 46	# 351
Dawe, Piers	3	Agilent		

Comment Type TR Comment Status D

Removing duplication and contentious (marketing?) claim.

SuggestedRemedy

Change 'The 1000BASE-X PCS for subscriber access networks shall conform to the requirements of the 100BASE-X PCS specified in 24.2 and the 100BASE-X PMA specified in 36.2 with the following exception: The 100BASE-X PCS for subscriber access networks has the ability ...'

to: 'A unidirectional capable 1000BASE-X PCS shall conform to the requirements of the 100BASE-X PCS specified in 36.2 with the following exception: it has the ability ...'

Proposed Response Response Status W

PROPOSED REJECT.

It needs to be made clear that it is mandatory that all subscriber access PHYs that could otherwise use Clause 36 shall instead use the 66.2 PCS.

C/ 66	SC 66.2.2.3	P 543	L 25	# 352
Dawe, Piers		Agilent		

Comment Type TR Comment Status D

If we agree that OAM frames indicating remote fault embedded in PHY layer RF are good, or acceptable, for 10G then the same is true for 1000BASE-X, except it's called /C/ ordered_sets rather than RF.

I do think that fast, hardware oriented already standardized, protection switching will be needed in access networks in particular to carry time-sensitive traffic like voice and video, especially on the slower link types. But having investigated it I see why you were tempted to cut the Gordian knot and get away from clause 37 altogether!

The remedy below behaves as the current draft 3.1 when autoneg is turned off.

SuggestedRemedy

Change 66.2.2.3 so that when signal_status=OFF and mr_unidirectional_enable=TRUE, the PHY will transmit /C/, or a mix of /C/ and /I/, interrupted with OAM frames. Ensure that the reception of this can be used simply to inhibit transmission of client frames (and any protection action) rather than triggering a repeated autoneg activity. Describe modifications to figure 37-6 to achieve this.

Proposed Response Response Status W

PROPOSED REJECT.

There is insufficient support in the task force or working group to support this kind of a change.

C/ 66	SC 66.3.1	P 543	L 53	# 353	
Dawe, Piers		Agilent			

Comment Type TR Comment Status D

Removing duplication and contentious (marketing?) claim. Also I thought there was still some debate about whether this (10G) modification should be optional or forbidden - and we have consensus that it's not mandatory.

SuggestedRemedy

Change 'This subclause specifies changes to the 10Gb/s RS for support of subscriber access networks. These are changes to the existing 10Gb/s RS for legacy ethernet as described in Clause 46.' to

'This subclause specifies optional variations to the 10Gb/s RS defined in Clause 46, for unidirectional transport of OAM frames.'

Proposed Response Response Status W

PROPOSED REJECT.

There is insufficient support in the task force or working group to change this feature from mandatory to optional.

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C/ 67 SC 67.1 P 550 Dawe, Piers Agilent		# 335	C/ 67A SC 67A.2 P 678 L 39 # 338 Dawe, Piers Agilent				
Comment Type E Comment Status I This isn't grammatical: 'Number of PHY segm			Comment Type E Comment Status D Double reference: 67A.2 66A.3				
SuggestedRemedy Maybe 'Number of PHYs per segment'?			SuggestedRemedy Delete '66A.3'.				
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Will fix the grammar			C/ 99 SC P L # 122				
C/ 67 SC 67.3 P552	2 L 32	# 336	Michelle Turner IEEE-SA				
Dawe, Piers Agilent			Comment Type E Comment Status D				
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Too many blank lines <i>SuggestedRemedy</i> Take out any duplicate carriage feeds.			For further guidance in preparing an IEEE Standard, here's the URL for access to the on- line version of the IEEE Standards Style Manual: http://standards.ieee.org/guides/style/index.html				
Proposed Response Response Status V PROPOSED ACCEPT.	w						
C/ 67ASC 67A.2P 678Dawe, PiersAgilent		# 339	In the introduction, change the designation to read IEEE P802.3ah instead of IEEE Std 802.3ah. It appears throughout the front matter the document is already referred to as IEEE Std 802.3ah-20xx. It should be IEEE P802.3ah.				
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CI 99 SC	P 2	L1	# 589	C/ 99 SC	90	P1	L 20	# 257
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SC 99

Dave, Piers Agilent Comment Type E Comment Status D We should be positive not treative about what we are doing. Also, it is no longer the case that: This draft also introduces the concept of Ethernet Passive Optical Networks The first draft asile the same, so this one doesn't! Dawe, Piers Agilent SuggestedRemedy Change to: This draft also specifies Ethernet Passive Optical Networks Proposed Response Response Status O Cl 99 SC 99 P1 L9 # 255 Dawe, Piers Agilent Comment Type E				P802.3ah I	Draft 3.1 Co	mments			
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subscriber access ne</td><td>etworks Also on line 31.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table></title>									

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<i>CI</i> A Squire, Matt	SC	P 140 Hatteras Netw	L 29 vorks	# 600
Comment Ty The refe		Comment Status D 30 looks pretty short. Should	be expanded to r	normal reference style.
SuggestedR Unfortur		nave the full reference. Hopef	ully someone at	the meeting will.
Proposed R PROPO	•	Response Status W	nt 300	
CI A	SC A	P140	L 29	# 300
Dawe, Piers	;	Agilent		
Comment Ty Title of		Comment Status D		
SuggestedR	Remedy			
		I functions in Ethernet based on mendation' around.	networks, dated	2004. Also, better to
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Dawe, Piers	;	Agilent		
Comment Ty Extend t	ype E the instructions	Comment Status D		
SuggestedR Add 'and		e definitions as required.'		
Proposed R PROPO	esponse DSED ACCEPT	Response Status W		