~ ~ ~					
C/ 00	SC O	P 85	L 48	# 19	C/ 45
Schmitt,	Matt	CableLabs			Maniloff, Eric
Commer	nt Type E	Comment Status D		bucket	Comment Ty
		in 802.3 to use a dash "" to ple places (the first being on p			SC-FEC bits (pre-
Suggeste	edRemedy				SuggestedR
Repl	lace with dotted b	ullets, if permissible under 80	2.3 style guidelin	es.	Add 64 b
Propose	d Response	Response Status W			Proposed Re
The		ts consistent with IEEE praction			PROPO Add any
		lanual "if the list consists of sh 3-2018 and amendments.	nort, unordered it	ems". Similar lists	CI 45
C/ 1	SC 1.4	P 22	L 20	# 47	Trowbridge,
D'Ambro	osia, John	Futurewei U	S. Subsidiary of		Comment Ty
Commer		Comment Status D	,		Clause 1 a bug fix maintena
C					not be o
00	edRemedy	M Svetom An aggregate of D	W/DM links over	oithor a single optical	SuggestedR
Add	definition - DWDI	M System - An aggregate of D al fiber per direction.	WDM links over	either a single optical	
Add fiber	definition - DWDI	M System - An aggregate of D al fiber per direction. Response Status W	WDM links over	either a single optical	SuggestedR
Add fiber Proposed PRC Insel	definition - DWDI or a single optica of <i>Response</i> DPOSED ACCEP ort the following ne	al fiber per direction. Response Status W T IN PRINCIPLE. w definition after 1.4.237 "dup	olex channel" as o	defined in the	SuggestedRe Remove
Add fiber Proposed PRC Insel term	definition - DWDI or a single optica <i>d Response</i> DPOSED ACCEP rt the following ne inology ad hoc re	al fiber per direction. Response Status W T IN PRINCIPLE. w definition after 1.4.237 "dup port on March 7, 2018 "DWD	olex channel" as o M System - An a	defined in the ggregate of DWDM	SuggestedR Remove Proposed Re PROPO
Add fiber Proposed PRC Insel term links	definition - DWDI or a single optica <i>d Response</i> DPOSED ACCEP rt the following ne inology ad hoc re	al fiber per direction. Response Status W T IN PRINCIPLE. w definition after 1.4.237 "dup port on March 7, 2018 "DWD ical fiber". Additionly add a ne	olex channel" as o M System - An a	defined in the ggregate of DWDM	SuggestedR Remove Proposed Re PROPO Remove
Add fiber Proposed PRO Inset term links Dens	definition - DWDI or a single optica <i>d Response</i> DPOSED ACCEP rt the following ne inology ad hoc re s over a single opt	al fiber per direction. Response Status W T IN PRINCIPLE. w definition after 1.4.237 "dup port on March 7, 2018 "DWD ical fiber". Additionly add a no Multiplexing"	olex channel" as o M System - An a	defined in the ggregate of DWDM n 1.5 for "DWDM-	SuggestedR Remove Proposed Re PROPO Remove Cl 45
Add fiber Propose PRC Inser term links Dens CI 45	definition - DWDI or a single optica d Response DPOSED ACCEP rt the following ne inology ad hoc re s over a single opt se Wave Division SC 45.2.1.1	al fiber per direction. Response Status W T IN PRINCIPLE. w definition after 1.4.237 "dup port on March 7, 2018 "DWD ical fiber". Additionly add a no Multiplexing"	olex channel" as o M System - An a ew abbreviation in	defined in the ggregate of DWDM	SuggestedR Remove Proposed Re PROPO Remove Cl 45 Trowbridge,
Add fiber Proposed PRC Inset term links Dens Cl 45 Nicholl, 0	definition - DWDI or a single optica of Response DPOSED ACCEP rt the following ne inology ad hoc re s over a single opt se Wave Division SC 45.2.1.1 Gary	al fiber per direction. Response Status W T IN PRINCIPLE. ew definition after 1.4.237 "dup port on March 7, 2018 "DWD icical fiber". Additionly add a ne Multiplexing" 33b P27 Cisco	olex channel" as o M System - An a ew abbreviation in	defined in the ggregate of DWDM n 1.5 for "DWDM-	SuggestedR Remove Proposed Re PROPO Remove Cl 45 Trowbridge, Comment Ty Clause 1 a bug fix
Add fiber Proposed PRC Inset term links Dens C/ 45 Nicholl, 0 Commer	definition - DWDI or a single optica of Response DPOSED ACCEP rt the following ne inology ad hoc re s over a single opt se Wave Division SC 45.2.1.1 Gary nt Type E	al fiber per direction. Response Status W T IN PRINCIPLE. Even definition after 1.4.237 "dup port on March 7, 2018 "DWD ical fiber". Additionly add a ner Multiplexing" 33b P27	olex channel" as o M System - An a ew abbreviation in L18	defined in the Iggregate of DWDM n 1.5 for "DWDM- # 38	SuggestedR Remove Proposed Re PROPO Remove Cl 45 Trowbridge, Comment Ty Clause 1
Add fiber Proposed PRC Insel term links Dens Cl 45 Nicholl, 0 Commen This	definition - DWDI or a single optica of Response DPOSED ACCEP rt the following ne inology ad hoc re s over a single opt se Wave Division SC 45.2.1.1 Gary nt Type E	al fiber per direction. Response Status W T IN PRINCIPLE. www.definition after 1.4.237 "dup port on March 7, 2018 "DWD ical fiber". Additionly add a ne Multiplexing" 33b P27 Cisco Comment Status D pout "Tx optical frequency inde	olex channel" as o M System - An a ew abbreviation in L18	defined in the Iggregate of DWDM n 1.5 for "DWDM- # 38	SuggestedR Remove Proposed Re PROPO Remove Cl 45 Trowbridge, Comment Ty Clause 1 a bug fix mainten
Add fiber Propose PRC Inser term links Dens Cl 45 Nicholl, 0 Commer This uses Suggeste	definition - DWDI or a single optica of Response DPOSED ACCEP rt the following ne innology ad hoc re sover a single opt se Wave Division SC 45.2.1.1 Gary nt Type E sectuoin talks ab s the term "Chann redRemedy	al fiber per direction. Response Status W T IN PRINCIPLE. w definition after 1.4.237 "dup port on March 7, 2018 "DWD ical fiber". Additionly add a ne Multiplexing" 33b P27 Cisco Comment Status D rout "Tx optical frequency inder tel Index number"	blex channel" as of M System - An a ew abbreviation in L18 x" but referes to	defined in the iggregate of DWDM n 1.5 for "DWDM- # 38 Table 154-6 which	SuggestedR Remove Proposed Re PROPO Remove Cl 45 Trowbridge, Comment Ty Clause 1 a bug fix maintena not be op
Add fiber Propose PRC Inser term links Dens Cl 45 Nicholl, 0 Commer This uses Suggeste	definition - DWDI or a single optica of Response DPOSED ACCEP rt the following ne innology ad hoc re sover a single opt se Wave Division SC 45.2.1.1 Gary nt Type E sectuoin talks ab s the term "Chann redRemedy	al fiber per direction. Response Status W T IN PRINCIPLE. www.definition after 1.4.237 "dup port on March 7, 2018 "DWD ical fiber". Additionly add a ne Multiplexing" 33b P27 Cisco Comment Status D pout "Tx optical frequency inde	blex channel" as of M System - An a ew abbreviation in L18 x" but referes to	defined in the iggregate of DWDM n 1.5 for "DWDM- # 38 Table 154-6 which	SuggestedR Remove Proposed Re PROPO Remove Cl 45 Trowbridge, Comment Ty Clause 1 a bug fix maintena not be op SuggestedR Remove impleme
Add fiber Proposed PRC Insel term links Dens Cl 45 Nicholl, 0 Commen This uses Suggeste Prop	definition - DWDI or a single optica of Response DPOSED ACCEP rt the following ne innology ad hoc re sover a single opt se Wave Division SC 45.2.1.1 Gary nt Type E sectuoin talks ab s the term "Chann redRemedy	al fiber per direction. Response Status W T IN PRINCIPLE. w definition after 1.4.237 "dup port on March 7, 2018 "DWD ical fiber". Additionly add a ne Multiplexing" 33b P27 Cisco Comment Status D rout "Tx optical frequency inder tel Index number"	blex channel" as of M System - An a ew abbreviation in L18 x" but referes to	defined in the iggregate of DWDM n 1.5 for "DWDM- # 38 Table 154-6 which	SuggestedR Remove Proposed Re PROPO Remove Cl 45 Trowbridge, Comment Ty Clause 1 a bug fix maintena not be op SuggestedR Remove

C/ 45	SC 45.2.1.18	6 P 45	L 24	# 14
Maniloff, E	Fric	Ciena		
Comment SC-FE bits (p	C needs counter	Comment Status D s defined to allow monitoring and total bits would provide	pre-FEC BER. (Counters for corrected
Suggested Add 64	<i>IRemedy</i> 4 bit counters for	these		
	OSED ACCEPT	Response Status W IN PRINCIPLE. pit counters based on the res	solution of comm	ent 15.
C/ 45	SC 45.2.1.18	6ab P36	L 21	# 26
Trowbridg	e, Steve	Nokia		
Comment	Type TR	Comment Status D		
a bug mainte	fix that was only renance request no optional.	es that FEC_optional_states made optional to avoid makin on-compliant. Since Inverse	ng implementatio	ns prior to the
••	•	loes not support optional sta	tes in Figure 91_	-8"
Remo	OSED ACCEPT. ve "0 = RS-FEC o	Response Status W	0	
C/ 45	SC 45.2.1.18		L 25	# 27
Trowbridg		Nokia		
a bug mainte	fix that was only renance request no optional.	Comment Status D es that FEC_optional_states made optional to avoid makin on-compliant. Since Inverse	ng implementatio	ns prior to the
	ve "When read as nented."	s a zero, bit 1.2201.7 indicate	es that the option	al states are not
Remo	OSED ACCEPT.	Response Status W	es that the option	al states are not

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 45	Page 1 of 14
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 45.2.1.186ab	11/5/2019 10:26:36 AM
SORT ORDER: Clause, Subclause, page, line		

					-				
C/ 80	SC 80.1.3	P 46	L 7	# 39	CI 80	SC 80.1.4	P 47	L 30	# 53
vicholl, Ga	ary	Cisco			D'Ambrosi	ia, John	Futurewei, U	.S. Subsidiary of	Huawei
Comment	Type E Com	nment Status D			Comment	Туре Т	Comment Status D		
	dn't the editing instructior Std 802.3cd. 802.3cu als				Based PHY.	l on proposed m	odification of 100GBASE-ZR	description, add	a definition for DWDM
uggestea	IRemedy				Suggested	Remedy			
Change the editing instruction from "as changed by IEEE Std 802.3cd-2018" to "as changed by IEEE Std 802.3cd-2018" to "as changed by IEEE Std 802.3cd-2018 and IEEE Std 802.3cu-20xx" and modify the text to inorporate the changes made by 802.3cu						/I PHY - An Ethernet PHY that I and is capable of running ov			
				ide by 802.3cu	Proposed	Response	Response Status W		
	. ,	onse Status W					IN PRINCIPLE.		
PROPOSED ACCEPT IN PRINCIPLE. Change the editing instructions to include "as modified by IEEE Std 802.3cd-2018 and by IEEE Std 802.3cu-20xx". Update the text to include the modifications made by 802.3cu-200xx.			termin operat	ology ad hoc re	w definition after 1.4.237 "dup port on March 7, 2018 "DWD avelength on a defined freque	M PHY - An Ethe	ernet PHY that		
/ 80	SC 80.1.4	P 47	L19	# 40	C/ 80	SC 80.1.4	P 47	L 30	# <u>52</u>
icholl, Ga	ary	Cisco			D'Ambrosi	ia, John	Futurewei, U	.S. Subsidiary of	Huawei
omment	Type E Com	nment Status D		bucket	Comment	Туре Е	Comment Status D		
Is the sentence beginning with "Some 100GBASE-R Physical" missing a comma after Clause 91 abnd Clause 153 ? SuggestedRemedy				nissing a comma after	not jus Additic	st a regular PHΥ	erminology it was agreed to d . This should e reflected in the should e reflected in the sis terminology that has been a.	ne description of	100GBASE-ZR.
	issing commas.				Suggested	Remedy			
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Modify the existing proposed langugage "Some 100GBASE-R Physical Layer devices also			encod	ing over a singl	d definition in 1.4) to 100 Gb/ e wavelength on a defined fre , with reach up to at least 80	quency grid and	is capable of running		
use the		91 or the FEC of C	lause 153 and so	ome may also use the	Proposed	Response	Response Status W		
transcoding and FEC of Clause 91 or the FEC of Clause 153 and some may also use the FEC of Clause 74" to read "Some 100GBASE-R Physical Layer devices also use the transcoding and FEC of Clause 91, the FEC of Clause 153, or the FEC of Clause 74"				In 1.4. specifi	35a replace the ication for 100 (TIN PRINCIPLE. definition of "100BASE-ZR" v bb/s DWDM PHY using 100G gle channel on a DWDM syst	BASE-R encodin	ig and DP-DQPSK	

C/ 80 SC 80.1.4

CI 80	SC 80.1.5	P 48	L 3	#	28
Trowbridge	, Steve	Nokia			· · · · · · · · · · · · · · · · · · ·

Comment Type E Comment Status D

This editing instruction seems not entirely consistent with prior projects. IEEE Std 802.3cd has added a Table 80-4a (which presumably gets merged into Table 80-4 at the next revision) with the 100GBASE-SR2 and 100GBASE-DR PHY types. P802.3cu Draft 1.0 shows adding 100GBASE-FR1 and 100GBASE-LR1 to P802.3cd Table 80-4a rather than to Table 80-4 itself. As a single-lane PHY, does this belong in Table 80-4a rather than Table 80-4, or alternatively, should a new Table 80-4b be created for this new different PHY type?

SuggestedRemedy

Either add 100GBASE-ZR to Table 80-4a from 802.3cd or to a new Table 80-4b

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Add new table 80-4b. Table 80-4b will be labeled "100GBASE-DWDM" to highlight the use of coherent modulation and support over a DWDM system. A new definition will be added to 1.4 "100GBASE-DWDM - An IEEE 802.3 family of Physical Layer devices using 100GBASE-R encoding and is capable of running over a DWDM System".

C/ 80	SC 80.1.5	P 48	L 6	# 41
Nicholl, G	Bary	Cisco		
~				

Comment Type E Comment Status D

Should the new PMD be inlcuded in Table 80-4, Table 80-4a or a new Table ?

SuggestedRemedy

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #28.

C/ 80	SC 80.2.3	P 48	L 47	# 42
Nicholl, Gar	у	Cisco		
Comment T	vpe E	Comment Status D		

Shouldn't the editing instruction be updated to reflect the changes made in 802.3cu D1p0?

SuggestedRemedy

Change editing instruction from "as changed by IEEE Std 802.3cd-2018" to "as changed by IEEE Std 802.3cd-2018 and modified by IEEE Std 802.3cu-20xx". Update the text to reflect the changes made by IEEE Std 802.3cu-20xx.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change the editing instructions to "as modified by IEEE Std 802.3cd-2018 and IEEE Std 802.3cu-20xx".

Update the text to include the modifications made by 802.3cu-20xx.

C/ 80	SC 80.4	P 51	L 3	# 43
Nicholl, Gai	ry	Cisco		
Comment T	ype E	Comment Status D		

Table 80-3 does not show the new 100G PMDs added by IEEE Std 802.3cu-20xx.

SuggestedRemedy

Suggest changing the editing instruction to only show the new rows that are being inserted , as was done in IEEE Std 802.3cu-20xx

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Assuming resolution of comment 28 as proposed, Table 80-4 will no longer be referenced in the document so this comment is no longer valid.

C/ 80 SC 80.5	P 53	L1	# 29
Trowbridge, Steve	Nokia		

Comment Type T Comment Status D

Since the Inverse RS-FEC and SC-FEC sub-layers remove all prior skew and start a fresh skew budget, the only real question to be answered regarding whether we need to establish new skew limits for this interface is if the skew opportunity between SP3 and SP4 (which could only occur between the two streams of DQPSK symbols on the two polarizations) could exceed the 80ns of skew or 2.4ns of skew variation already included in clause 80.5.

SuggestedRemedy

Add to editor's note that this depends on whether the maximum skew between streams of DPQPSK symbols on the two orthogonal polarizations can experience more than 80ns of skew or 2.4ns of skew variations across the black link.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Modify editor's note to say "skew variation needs to be revisted, input requested"

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	C/ 80	Page 3 of 14
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 80.5	11/5/2019 10:26:36 AM

SORT ORDER: Clause, Subclause, page, line

C/ 119	SC 119.2	P 57	L 1	# 46
D'Ambrosi	a, John	Futurewei, L	J.S. Subsidiary of	f Huawei
Comment	Type TR	Comment Status D		bucket
receive	es necessary ap	pe of P802.3ct, if the propose oprovals, modifications to 40 be part of the new proposed	0GBASE-R woul	
Suggested	Remedy			
Delete	all proposed ch	nanges to 119		
Per Mo moved	OSED ACCEPT otion 6 of the Se I to a new projec	Response Status W T IN PRINCIPLE. eptember Interim meeting, 40 ct .cw. If the necessary appr BASE-R will be removed.		
C/ 152	SC 152.1	P 58	L 58	# 55
D'Ambrosi	a, John	Futurewei, U	J.S. Subsidiary of	f Huawei
Comment	Туре Т	Comment Status D		bucket
FEC) s 100GE specifi used a specifi	sublayer for 3ASE-R PHYs. ed in Clause 91	-chip or chip-to-module interf i3	es where the Ree	d-Solomon FEC
Suggested	lRemedy			
add at	end of sentenc	e - "of two connected 100GE	ASE-ZR PHYs.	
Proposed	Response OSED ACCEP1	Response Status W		
FROF	USED ACCEPT	1.		

	Proposed I PROP	OSED ACCEPT.	Response
TYPE: TR/technical required ER/editorial required GR/genera COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Subclause, page, line		Z/withdrawn	

C/ 152	
SC 152.5.2.1	

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C/ 152	SC 152.1.2	P 59	L19	# 50
D'Ambrosi	a, John	Futurewei, U	.S. Subsidiary of	Huawei
Comment	Type TR	Comment Status D		
	are now two vers c "PMA" might ca	sions of 100G PMAs - 100GE ause confusion.	BASE-R and 100	GBASE-Z. Use of
Suggested	Remedy			
	e all layer diagra BASE-R PMA"	ms in 802.3 where "PMA" rej	presents 100GBA	ASE-R PMA to
Proposed I	Response	Response Status W		
84, 85, with ar	, 86, 87, 88, 92, 1 ny of these claus	blve opening many clauses the state of the state opening many clauses the state opening many	0 and would intro is invited to raise	oduce an inconsistent
		P60	L 28	# 30
Trowbridge		Nokia		
1 'ommont		Commont Status D		
While	it is specified els	Comment Status D ewhere, it is worth noting in the FEC optional states are n		another difference
While i from C	it is specified els clause 91 is that	ewhere, it is worth noting in		another difference
While i from C <i>Suggested</i> Add a	it is specified els clause 91 is that Remedy	ewhere, it is worth noting in	mandatory here.	
from C Suggested Add a	it is specified els clause 91 is that <i>Remedy</i> sentence to this e FEC sublayer"	ewhere, it is worth noting in the FEC optional states are i	mandatory here.	
While i from C Suggested Add a Inverse Proposed I	it is specified els clause 91 is that <i>Remedy</i> sentence to this e FEC sublayer"	ewhere, it is worth noting in the FEC optional states are not clause "The FEC optional states are not clause "The FEC optional states are not clause where the state states are not clause where the state s	mandatory here.	
While i from C Suggested Add a Inverse Proposed I	it is specified els clause 91 is that <i>Remedy</i> sentence to this e FEC sublayer" <i>Response</i>	ewhere, it is worth noting in the FEC optional states are not clause "The FEC optional states are not clause ar	mandatory here.	
While from C Suggested Add a Inverse Proposed I PROP	it is specified els clause 91 is that <i>Remedy</i> sentence to this e FEC sublayer" <i>Response</i> OSED ACCEPT SC 152.5.2.1	ewhere, it is worth noting in the FEC optional states are not clause "The FEC optional states are not clause are not	nandatory here. ates in clause 91	are mandatory for th
While i from C Suggested Add a Inverse Proposed I PROP Cl 152	it is specified els clause 91 is that <i>Remedy</i> sentence to this e FEC sublayer" <i>Response</i> OSED ACCEPT SC 152.5.2.1 e, Steve	ewhere, it is worth noting in the FEC optional states are not clause "The FEC optional st Response Status W	nandatory here. ates in clause 91	are mandatory for th
While i from C Suggested Add a Inverse Proposed I PROP Cl 152 Trowbridge Comment While i	it is specified els clause 91 is that (Remedy sentence to this e FEC sublayer" Response OSED ACCEPT SC 152.5.2.1 e, Steve Type TR it is specified els	ewhere, it is worth noting in the FEC optional states are in clause "The FEC optional st <i>Response Status</i> W <i>P</i> 62 Nokia	nandatory here. ates in clause 91 <i>L</i> 7 ere Figure 91-8 i	are mandatory for th # <u>31</u> s referenced that the
While i from C Suggested Add a Inverse Proposed I PROP Cl 152 Trowbridge Comment While i	it is specified els lause 91 is that l' <i>Remedy</i> sentence to this e FEC sublayer" <i>Response</i> OSED ACCEPT SC 152.5.2.1 e, Steve <i>Type</i> TR it is specified els ptional states fro	ewhere, it is worth noting in the FEC optional states are in clause "The FEC optional st <i>Response Status</i> W	nandatory here. ates in clause 91 <i>L</i> 7 ere Figure 91-8 i	are mandatory for th # <u>31</u> s referenced that the
While i from C Suggested Add a Inverse Proposed I PROP Cl 152 Trowbridge Comment While i FEC o Suggested Add a dotted	ti is specified els lause 91 is that l' <i>Remedy</i> sentence to this e FEC sublayer" <i>Response</i> OSED ACCEPT SC 152.5.2.1 e, Steve <i>Type</i> TR it is specified els ptional states fro <i>l'Remedy</i> sentence "Note i	ewhere, it is worth noting in the FEC optional states are in clause "The FEC optional st <i>Response Status</i> W	nandatory here. ates in clause 91 <i>L</i> 7 ere Figure 91-8 i ndatory in this co illustrated with th	are mandatory for th # 31 s referenced that the ontext. he states within the

	3 P62	L 27	# 1	C/ 152 SC 1	52.5.3.5	P 66	L 40	# 3
Bruckman, Leon	Huawei			Bruckman, Leon		Huawei		
Comment Type ER	Comment Status D		bucket	Comment Type	Е	Comment Status D		
Typo: tx_scrambed				This section is whole thing	exactly the	e same as 91.5.2.5. Better re	efer to that sect	ion than repeat the
SuggestedRemedy				U U				
Replace with: tx_scrar	nbled			SuggestedRemedy				
Proposed Response	Response Status W			•		ection with: See 91.5.2.5		
PROPOSED ACCEPT	Г.			Proposed Respons		Response Status W		
C/ 152 SC 152.5.2.	5 <i>P</i> 62 Huawei	L 37	# 2	PROPOSED R Unfortunately i operates on tx	t is not the	same. This clause operates	s on rx_coded, v	while clause 91.5.2.5
Bruckman, Leon Comment Type E	Comment Status D			C/ 152 SC 1	52.5.3.6	P68	L3	# 4
21	the same as 91.5.3.5. Better	refer to that sect	on than repeat the	Bruckman, Leon		Huawei	-	
whole thing			on man ropout no	,	т	Comment Status D		
SuggestedRemedy				51	-	es of the alignment markers	corresponding	to PCS lanes 17, 18
Replace the text in the	e section with: See 91.5.3.5			and 19 with the	e fixed byte	es for the alignment marker	corresponding t	o PCS lane 16 is
Proposed Response	Response Status W			required for EE	E deep sl	eep mode that is not define t	for 100GBASE-	ZR.
PROPOSED REJECT	· · ·			SuggestedRemedy				
	the same as 91.5.3.5. This cla d, while clause 91 in this direc					substitute PCS lanes 17, 18, ponding to PCS lane 16	and 19 with the	e fixed bytes for the
rx_coded/rx_scramble	d.	·		Proposed Respons	se	Response Status W		
C/ 152 SC 152.5.3.	2 P66	L17	# 32	PROPOSED R				
Frowbridge, Steve	Nokia					t only for deep sleep, but to rface to find FEC lane alignr		
	Comment Status D			fixed bytes on	each FEC	lane. That RS FEC sublaye	r may be a lega	cy implementation
Comment Type TR	e skew opportunity between th			scope paragra	ph, the coi	0GBASE-ZR module into th ntents of this clause are gen	eric and could b	be used anywhere ar
Since there is no more sublayer (generally at the PCS and the RS F	most a single C2M interface, i EC sublayer, no reason not to use 91 in the Tx direction.			implement an i			i, for example, if	f P802.3ck decides t
Since there is no more sublayer (generally at the PCS and the RS F	most a single C2M interface, i EC sublayer, no reason not to						i, for example, if	f P802.3ck decides t

Proposed Response Response Status W PROPOSED ACCEPT.

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

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C/ 153	SC 153	P 81	L1	# 45	C/ 153	SC 153	3.2.3.2.4		P 84	L 37	# 18
Nicholl, Gary	1	Cisco			Schmitt, Mat	t			CableLabs		
Comment Ty	pe E	Comment Status D			Comment Ty	vpe E		Comment	Status D		bucke
like it has	s to be in the s uue as the SC-	ave the 100GBASE-ZR PMA ame clause as 153 and cluld FEC, adds another layer of s	l easily be separa	ated. Having it in the	it should	end with colon is	h a color		s setting up the		st sentence reads as if e second sentence
SuggestedRe	emedv				00	,	oc choul	d ideally be	morgod togoth	or porboos by m	aking the second
Consider	,	0GBASE-ZR PMA into a seo ause 153.	parate clause to s	simoplify the sub-	sentence sentence	e a parai e in para	nthetical	comment o	n the first (in ot		g all of the second
Proposed Re	esponse	Response Status W			sentence	Э.					
PROPOS	SED REJECT.				Proposed Re	esponse		Response	Status W		
appropria followed	ate to combine in several of th	SC-FEC and ZR PMA sublayer the sublayers into a single c ne BASE-T PHY types where nterface between them.	lause. This is sin	nilar to the approach ublayers have no	"The info	ormation e is scra	in the Si mbled p g:"	taircase FE rior to transi	mission (see 18	es the following. \$ 53.2.3.2.6), the co	Since the majority of ontents are described
	SC 153.2.3.2	.2 P84	L10	# 33							3.2.3.2.6). The
	SC 153.2.3.2	.2 P84 Nokia	L10	# 33	informati	ion in the				e following, descri	
C/ 153	SC 153.2.3.2 Steve		L10	# <u>33</u>	informati scrambli	on in the ng:"	e Stairca		ne includes the	e following, descri	bed before
7 153 Frowbridge, Comment Ty In the Tx	SC 153.2.3.2 Steve pe TR direction, ther	Nokia <i>Comment Status</i> D e is exactly the same skew o	opportunity betwe	een the PCS or Inverse	informati	on in the ng:"					
C/ 153 Trowbridge, Comment Ty In the Tx FEC sub	SC 153.2.3.2 Steve <i>pe</i> TR direction, ther layer and the S	Nokia <i>Comment Status</i> D e is exactly the same skew o SC-FEC sublayer as there is	opportunity between the PC	een the PCS or Inverse	informati scrambli	on in the ng:" SC 153	e Stairca		ne includes the	e following, descri	bed before
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C/ 153 Trowbridge, Comment Ty In the Tx FEC sub sublayer SuggestedRe	SC 153.2.3.2 Steve pe TR direction, ther layer and the S , so no reason emedy the skew TBD	Nokia Comment Status D e is exactly the same skew o SC-FEC sublayer as there is to use any other value than (opportunity betwe between the PC Clause 91	een the PCS or Inverse S and the RS FEC	informati scrambli <i>CI</i> 153 Bruckman, L <i>Comment Ty</i> From the and usin	SC 153 SC 153 Leon pe E e text it is g it is that ation). It	e Stairca 3.2.3.2.4 R s not clea at the SC	se FEC frar Comment ar why MFA C-FEC uses	P84 Huawei Status D S is required. I it to identify the	e following, descri	# <u>5</u> n reason of defining for the PT

Replace 2) with the following text: The MFAS is a multi-frame alignment signal. This field counts from 0 to 255, encoded with the most significant bit transmitted first; and it is

required by the SC-FEC to identify the blocks (refer to ITU-T G.709.2 Annex B).

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Add to the existing text "This is used to locate the payload type (see 153.2.3.2.4), for aligning SC-FEC base blocks with the SC-FEC frame and synchronizing the SC-FEC error decorrelator."

2" Response Status W Response Status W 1 P85 L17 # [7] Huawei Muawei Comment Status N Comment Status D bucket Cl 153 SC 153.2.3.2.4 P87 L23 # [4] Nicholl, Gary Cisco Comment Status D Note appears to be using the wronf font. Suggested/Remedy Fix font uses a nationary signaling rate differences in which it is carried that uses a sigma/delta distribution algorithm. PROPOSED REJECT. This is the font for the "Note" paragraph style. which is indeed a smaller point-size than the Normal paragraph style. PINNCIPLE: P87 L23 # [9] Pins that can accommodate any thirary signaling rate difference in which it is carried that uses a sigma/delta PROPOSED REJECT. This is the font for the "Note" paragraph style. PR L23 # [9] Pinckman, Leon Huawei Comment Type TR Comment Status D Comment Status D Comment Type TR Comment Status D Comment Type TR Comment Status D Comment Status D Pins that can accommodate an arbitrary signaling rate difference in which it is carried that uses a sigma/delta Comment Type TR PRT	C/ 153 SC 153.2	.3.2.4 P84	L 48	# 6		C/ 153	SC 153.2.3.2.4	4	P 86	L 23	# 8	
arence 'G.709.2' In table 153-1 the II and DI bits in rows 2 and 3 are wrong 2' Response Status W 2' Response Status W 2.4 P85 L17 # 7 Huavei D bucket Comment Status D bucket Cit 53 SC 153.2.3.2.4 P87 L23 # 44 Nethol, Gary Cisco Cisco Comment Status D Note appears to be using the worlf font. Suggested/Remedy Fix font used fo note. PROPOSED REJECT. Note appears to be using the worlf font. Suggested/Remedy Fix font used fo note. PROPOSED REJECT. Note appears to be using the worlf font. Suggested/Remedy Fix font used fo note. PROPOSED REJECT. Note appears to be using the worlf font. Suggested/Remedy Fix font used fo note. PROPOSED REJECT. Note appears to be using the worlf status W "IN PRINCIPLE. beginning of the paragraph beginning on page 85 line 6: Comment Type Comment Type Comment Type chains mat can accommodate an arbitrary signaling rate difference ind the space in which it is carried that uses a signa/delta Cit 53 SC 153.2.3.2.4 P87 L23 # 9 chains that can accommodate a	Bruckman, Leon	Huaw	ei			Bruckman,	Leon	Hu	lawei			
2' If in row 2 should be 1 and DI should be 0, and in row 3 II should be 0 and DI should be 1. Pesponse Status W Huawei PROPOSED ACCEPT. Comment Status D bucket is a generic mechanism that can accommodate an arbitrary signaling net difference in which it is carried that uses a nagorithm." with: "While GMP is a generic mechanism that can accommodate an arbitrary signaling rate difference between the payloadand the space in which it is carried that uses a sigma/delta Response Status W If in row 2 should be 1 and DI should be 0, and in row 3 II should be 0 and DI should be 1. Proposed Response Response Status W If in row 2 should be 1 and DI should be 0, and in row 3 II should be 0 and DI should be 0. PROPOSED ACCEPT. Cl 153 SC 153.2.3.2.4 P87 L 23 # 44 Nicholl, Gary Cisco Comment Type E Comment Status W Response Status W Note appears to be using the wronf font. SuggestedRemedy Fix font used for note. If In row 2 should be 1 and DI should be 1 and DI should be 0, and in row 3 II should be 0 and DI should be 1. PROPOSED REJECT. This is the font for the Note" paragraph style. Fix font used for note. If In Rev Comment Type TR Comment Type TR Comment Type TR	Comment Type E Missing part of the	Comment Status reference "G.709.2"	D		bucket					wrong		bucket
PROPOSED ACCEPT. L4 P85 L17 # [] Huawei	SuggestedRemedy Refer to "ITU-T G.7	'09.2"					-	nd DI should be	D, and in rov	w 3 II should be) and DI should	be 1.
Huawei Nicholl, Gary Cisco Comment Status D bucket Comment Type E Comment Status D is a generic mechanism that can accommodate an arbitrary signaling in the payloadand the space in which it is carried that uses a a lagorithm, "with: "While GMP is a generic mechanism that can pay signaling rate difference they early deadand the space in which it is carried that uses a sigma/delta distribution algorithm. Fix font used fo note. Response Status W PROPOSED REJECT. This is the foot for the "Note" paragraph style, which is indeed a smaller point-size than the Normal paragraph style. I'N PRINCIPLE. Beginning of the paragraph beginning on page 85 line 6: chanism that can accommodate an arbitrary signaling rate difference rand the space in which it is carried that uses a sigma/delta the limited number of cases for this particular use allow the positions of data and stuff to be space. Fix Comment Type TR Comment Status D Heimism that can accommodate an arbitrary signaling rate difference rand the space in which it is carried that uses a sigma/delta the limited number of cases for this particular use allow the positions of data and stuff to be space. Fix Comment Type TR Comment Status D Anism that can accommodate an arbitrary signaling rate difference rand the space in which it is carried that uses a sigma/delta the limited number of cases, allowing the positions of data and stuff to be space. The note may mislead people to think that the 100GBASE-RZ signal.	Proposed Response PROPOSED ACCE		w			•	•	Response Stat	us W			
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ed ER/editorial required GR/general required T/technical E/editorial G/general C/ 153						Filling in The wo correct other ov	n the FAS, MFAS rding is "may fac that more is nee	ilitate interconne ded (e.g., the far	ction with", end needs	not "will interop to be able to be		

SORT ORDER: Clause, Subclause, page, line

2/ 153	SC 153.2.3.3.	5 P 8 9	L 29	# 10	C/ 153	SC 153.2.5	P 93	L 31	# 12
Bruckman	, Leon	Huawei			Bruckman,	, Leon	Huawei		
Comment	Туре Е	Comment Status D		bucket	Comment	Type TR	Comment Status D		
This se	ection describe th	e GMP demapper, so the de	mapper should b	pe quoted.	In table	e 153-2 there is	no instatus for MFAS		
uggested	IRemedy				Suggested	Remedy			
Replac	ce: "The principles	s of the GMP mapper" with: "	The principles o	f the GMP demapper"	Add M	FAS lock status	to table 152-3		
,	Response	Response Status W			Proposed I	,	Response Status W		
PROP	OSED ACCEPT.				-	OSED REJECT. sponse to comm			
2/ 153	SC 153.2.4	P89	L 50	# 11	C/ 153	SC 153.3.2.3	.2 <i>P</i> 96	L31	# 20
ruckman		Huawei			Schmitt. M		CableLabs	231	# 20
omment	• •	Comment Status D			Comment		Comment Status D		
algorit	hm should be defi	red for the SC-FEC block ide ned.	entification, the I	MFAS synchronization	In the t		his section, should the word	be "disinterleave"	or "deinterleave"?
	Remedy				Suggested	Remedy			
		on similar to the one defined	I IN I I U-I G.798	section 8.2.2	Chang	e "disinterleave"	to "deinterleave".		
,	Response	Response Status W			Proposed I	Response	Response Status W		
While full MF to che MFAS	AS frame alignme ck the PT, but if it =0x00 without the	to be filled in with an increme ent process for proper opera chose to do so, this could be need for frame alignment. T	tion. There is no e found by patter he use of MFAS	requirement for the Rx rn-matching by the FEC	Chang Chang	e "disinterleaved	IN PRINCIPLE. to "de-interleave" in the title " to "de-interleaved" in the fi to "de-interleave" in Figure	rst paragraph of	153.2.3.2.3.
		cified by reference to ITU-T (e base block alignment can			C/ 153	SC 153.4.4.1	P 98	L 20	# 34
order b	oit of MĖAS, and t	he error decorrelator in ITU-			Trowbridge	e, Steve	Nokia		
alignin	g MBAS with MFA	AS			Comment	Type TR	Comment Status D		
/ 153 Ianiloff, E	SC 153.2.5	P 93 Ciena	L 30	# 15			comments, no reason to use ction than Clause 91	different skew or	skew variation
omment		Comment Status D			Suggested	Remedy			
		ne registers for calculating pl	re-FEC BER.		Chang	e the skew TBD	to 49ns and the skew variati	on TBD to 400ps	6
uggested	IRemedy	otal bits to Table 153-2			Proposed I PROP	Response OSED ACCEPT	Response Status W		
	Response	Response Status W							
, PROP	OSED ACCEPT I	,							

C/ 153 SC 153.4.4.1

C/ 154 SC 154.1	P100	L 8	# 48	C/ 154	SC 154	4.1	P100	L11	# 54
D'Ambrosia, John	Futurewei, U.	.S. Subsidiary of	Huawei	D'Ambros	sia, John		Futurewei,	U.S. Subsidiary o	f Huawei
comment Type T C	Comment Status D			Comment	Туре Т	R	Comment Status D		
DWDM Channel is not defin	ned				statemet is				
uggestedRemedy				"Whe PMA		a comp	lete Physical Layer, a PME	shall be connect	ed to the appropriate
Add definition - DWDM Cha				show	n in Table 1				
defined frequency grid betw		smitting to anothe	er DWDM PHY.				-ZR PHY is based on the (ind 100GBASE-ZR PMD.	Clause 82 PCS, L	cause 153 SC FEC /
	esponse Status W						ID sublayer may be part o	f a complete PHY	that can be attached
PROPOSED ACCEPT IN P See response clause comm	-			an ex	isting 100G	BASE	-R PMA sublayer.		
•				Suggeste	dRemedy				
154 SC 154.1	P100	L 8	# 49		ge following		lata Dhuaiaal Lawan a DM	a hall ha anna at	
Ambrosia, John		.S. Subsidiary of	Huawei		n forming a as shown ii		lete Physical Layer, a PME e 154-1."	snall be connect	ed to the appropriate
	Comment Status D			to			,		
"black link" is not defined							0GBASE-ZR physical laye s shown in Table 154-1. T		
uggestedRemedy							blayer as shown in Table 1	,	be connected to the
Leverage industry definition	1			Proposed	Response	,	Response Status W		
roposed Response Re	esponse Status W			PROF	POSED AC	CEPT	IN PRINCIPLE.		
PROPOSED ACCEPT IN P				Repla					
Insert a (cross) reference to the DWDM channel.	clause 154.6, where an	n extended descri	ption is provided for				lete Physical Layer, a PME 154-1, to the medium three		ed to the appropriate
Modify the current text of 15				With				-	
"which is a single-mode fibe to	er based DWDM channe	el described in the	e form of a "black link""				lete Physical Layer, a PME able 154-1, to the medium		
which is a single-mode fibe	er based DWDM channe	el (defined in 154.	6) described in the				,	0	
form of a "black link" (also c		and contance is	464 6	C/ 154	SC 154	4.1	P101	L 27	# 35
Also insert a new sentence "The medium associated wi				Trowbridg			Nokia		
channel which is defined as	the transmission path o	over a single wav	elength/frequency on a	Comment			Comment Status D		
defined frequency grid betw	een a DWDM PHY trans	smitting to anothe	er DWDM PHY."	Unba	lanced lege	end und	der Figure 154-1		
				Suggeste					
				Move	PCS to the	e top of	the right column so both o	olumns are the sa	ame length
				Proposed	Response		Response Status W		
				PROF	POSED RE	JECT.			

PROPOSED REJECT. The current layout is identical to in-force optical clauses 139 and 140. Therefore there is no need to make the suggested modification.

Cl	154	
SC	154.1	

C/ 154	SC 154.4	P103	L 42	# 36		C/ 154	SC 154.6		P107	L 23	# 56
Trowbridge	, Steve	Nokia				D'Ambrosia	a, John		Futurewei, U	.S. Subsidiary of	f Huawei
Comment T	Type ER	Comment Status D			bucket	Comment	Туре Е	Comment	Status D	-	
		adopted the channel pla	an for 48 channels,	so TX index 47 ((left and	The lat	pel "DWDM net	work" is not def	ined		
right co	lumns) doesn't r	need to be magenta				Suggested	Remedy				
Suggested	,					Add de	finition - DWD	M Network - TBI	D		
	e Tx index 47 (tw ont two rows late	o occurrences) to black	font. Also Rx inde	ex 47 (two occurre	ences) to	Proposed F	Response	Response S	Status W		
Proposed F		Response Status W				PROP	OSED REJECT	г.			
	DSED ACCEPT.	,				The int	ent of Figure 1	54-3 is to show	the generic bl	ock diagram of u	p to n transmitte
	DOED ACCENT.									t the black link m	ne amount (up to nay consist of. A
C/ 154	SC 154.5.1	P 104	L 20	# 51		detaile	d description of	f what's inside th	he black link is	s provided in the	text of 154.6, inc
D'Ambrosia	a, John	Futurew	ei, U.S. Subsidiary	of Huawei		a desci fiber ar	ription that insid ad at the end or	de the black link ptically demultip	the up to n si exed	ignals are optical	lly multiplexed on
Comment 7	••	Comment Status D				It is not	t the intent of F	igure 154-3 to c	larify what a D	OWDM network n	neans.
DWDM	link is not define	ed				The co	mmontor is als	a invitad to pror	occ modificat	ione (if nocessar	ry) to the text of c
Suggested	Remedy					154.6.					
A .I.I. I.											
		Link - One DWDM PH) on path between them	' transmitting to on	e other DWDM F	νΗΥ						
through	the transmissio		Ū	e other DWDM F	РНΥ						
through Proposed F PROPC The "D	n the transmissio Response OSED ACCEPT WDM link" is cor posed to modify	n path between them Response Status W	not in the text.								
through Proposed F PROPO The "D It is pro clause	n the transmissio Response OSED ACCEPT WDM link" is cor posed to modify	n path between them <i>Response Status</i> W IN PRINCIPLE. htained in a figure and r	not in the text.								
through Proposed R PROPO The "D' It is pro clause Cl 154	the transmission Response DSED ACCEPT WDM link" is corr posed to modify 154.6 SC 154.5.4	n path between them Response Status W IN PRINCIPLE. htained in a figure and r "DWDM link" to "100G	ot in the text. BASE-ZR medium	", which is clarifie							
through Proposed R PROPC The "D' It is pro clause Cl 154 Bruckman,	a the transmission Response DSED ACCEPT WDM link" is corr posed to modify 154.6 SC 154.5.4 Leon	n path between them Response Status W IN PRINCIPLE. Itained in a figure and r "DWDM link" to "100G P105	ot in the text. BASE-ZR medium	", which is clarifie							
through Proposed R PROPC The "D' It is pro clause C/ 154 Bruckman, Comment 7	a the transmission Response DSED ACCEPT WDM link" is corr posed to modify 154.6 SC 154.5.4 Leon	n path between them Response Status W IN PRINCIPLE. Intained in a figure and r "DWDM link" to "100G P105 Huawei Comment Status D	ot in the text. BASE-ZR medium	", which is clarifie							
through Proposed R PROPC The "D' It is pro clause Cl 154 Bruckman, Comment 7 There is	a the transmission Response DSED ACCEPT WDM link" is corr posed to modify 154.6 SC 154.5.4 Leon Type TR s a single optical	n path between them Response Status W IN PRINCIPLE. Intained in a figure and r "DWDM link" to "100G P105 Huawei Comment Status D	ot in the text. BASE-ZR medium	", which is clarifie							
through Proposed R PROPO The "D" It is pro clause Cl 154 Bruckman, Comment 7 There is Suggestedl Repalcr on both signals	a the transmission Response OSED ACCEPT WDM link" is composed to modify 154.6 SC 154.5.4 Leon Type TR is a single optical Remedy e: "SIGNAL_DE" I lanes." with: "S ."	n path between them Response Status W IN PRINCIPLE. htained in a figure and r "DWDM link" to "100G P105 Huawei Comment Status D I lane TECT shall be a global IGNAL_DETECT shall I	indicator of the pre	", which is clarifie # 1 <u>3</u> sence of optical s	ed in						
through Proposed R PROPO The "D' It is pro clause Cl 154 Bruckman, Comment 7 There is Suggestedl Repalc on both signals	a the transmission Response DSED ACCEPT WDM link" is composed to modify 154.6 SC 154.5.4 Leon Type TR is a single optical Remedy e: "SIGNAL_DE" i lanes." with: "S ."	n path between them <i>Response Status</i> W IN PRINCIPLE. htained in a figure and r "DWDM link" to "100G <i>P</i> 105 Huawei <i>Comment Status</i> D I lane TECT shall be a global	indicator of the pre	", which is clarifie # 1 <u>3</u> sence of optical s	ed in						
through Proposed R PROPC The "D" It is pro clause C/ 154 Bruckman, Comment 7 There is Suggested Repalca on both signals Also fix	a the transmission Response DSED ACCEPT WDM link" is composed to modify 154.6 SC 154.5.4 Leon Type TR is a single optical Remedy e: "SIGNAL_DE" alanes." with: "S ." accordingly Tabla	n path between them Response Status W IN PRINCIPLE. htained in a figure and r "DWDM link" to "100G P105 Huawei Comment Status D I lane TECT shall be a global IGNAL_DETECT shall I	indicator of the pre be an indicator of the pre	", which is clarifie # 1 <u>3</u> sence of optical s	ed in						

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

C/ 154 SC 154.6

C/ 154	SC 154.6	P 107	L 31	# 57	C/ 154	SC ·
D'Ambros	sia, John	Futurewei, U.	.S. Subsidiary of	f Huawei	Schmitt, N	Matt
Comment	tType E	Comment Status D			Comment	Туре
	OWDM frequency mmendation ITU-	grid is defined by Table 154- T G.694.1.	6, which corres	ponds to	the sa	able has ame tabl
Suggeste	dRemedy					ns, unle t immed
		le DWDM channels operate				ins (espe
	ding to Recomme	endation ITU-T G.694.1. The	100GBASE-ZR	PMD specification	Suggeste	dRemed
of 48 48 is	channels. Operat supported.	ion of a DWDM system with			better	it might . Alterna
		mapping of the 100GBASE-	ZR channel inde	ex numbers to the	clear	it's two s
	al channel center encies.				Proposed	Respon
to	encies.				PROF	POSED
6, wh		channels operate on a DWD pping of the 100GBASE-ZR			Add a licens	clear se e.
		corresponds to the DWDM fr	requency arid de	efined by	C/ 154	SC '
	mmendation ITU-	T G.694.1. The 100GBASE-2			Schmitt, M	Matt
of 48		ion of a DWDM system with	any number of o	channels between 1 and		technica
Proposed	l Response	Response Status W				s a certa nel num

PROPOSED ACCEPT IN PRINCIPLE.

New text:

"These multiple DWDM channels operate on a DWDM frequency grid, defined by Table 154-6, which shows the mapping of the 100GBASE-ZR channel index numbers to the optical channel center frequencies. This grid corresponds to the DWDM frequency grid defined by Recommendation ITU-T G.694.1. The 100GBASE-ZR PMD specification covers a maximum of 48 channels over a DWDM system, supporting between 1 and 48 channels."

C/ 154	SC 154.6	P107	L 40	# 21
Schmitt, M	latt	CableLabs		

Е Comment Status D

as been constructed so that there are two parallel sets of 3 columns each within ble. Because there is nothing to show a separation between the two sets of 3 less you study the table closely, it appears instead to be a 6 column table, and diately obvious that the last 3 columns are "wrap around" data from the first 3 pecially since the table already goes across pages).

dy

t take up more pages, for clarity, a single table of 3 columns might work much nately, create some separation between the 3rd and 4th columns so that it's separate sets of data.

Response Status W nse

ACCEPT IN PRINCIPLE.

separation between the left and right groups of 3 columns. With editorial

C/ 154	SC 154.6	P 107	L 44	# 22
Schmitt, M	att	CableLabs		

Е Comment Status D

cally the "Channel Index Number" is arbitrary, and therefore starting from zero tain amount of logical sense, it is common practice in other forums to align the "channel number" with the last two digits of the Channel Center Frequency, thereby making it easy to understand immediately from the channel number what the frequency is or vice versa. This would improve the value and usability of the channel number.

SuggestedRemedy

Change the first "Channel index number" from "0" to 14 (to align with 191.4 THz Channel center frequency), and update all subsequent "Channel index numbers" accordingly, such that the last "Channel index number" becomes "61".

Proposed Response Response Status W

PROPOSED REJECT.

It is not the intent of the channel index number to define channel numbers. The channel index number is a logical number to refer to the MDIO control variable, Tx optical frequency index.

C/ 154 SC 154.6

C/ 154 SC 154.7	P108	L 46	# 58	C/ 154	SC 1	54.8.12	P 113	L 4	# 23
D'Ambrosia, John	Futurewei, U.S	5. Subsidiary of	Huawei	Schmitt, M	latt		CableLabs		
Comment Type E	Comment Status D			Comment	Туре	т	Comment Status D		
compliant (e.g., a	MD that exceeds the ement while meeting all other perating at 90 km meets the c			OSNR applies Suggested	(193.6) [a s, which o <i>Remedy</i>	amplified could leav	ut that there is a linkage/pair I. However, we don't explair ve a reader confused as to v	n what that links vhat that mean	age is and how it s.
SuggestedRemedy							ow they're linked. This could ncludes a diagram along the		
Delete noted text				in a pr	evious co	ontributio	n, or it could even be some	simple text add	ed here (or both).
Proposed Response PROPOSED ACCEPT	Response Status W			lines o	f: "Note	that this	text of an extension to the e parameter is paired with OS at which the OSNR(193.6)	NR(193.6) [am	plified], in that it defines
	o: "A 100GBASE-ZR that cou	ld operate over	90 km would meet the	Proposed	0 1	•	Response Status W	[abca] io	
operating range require	ement of 2 m to 80 km."			•			N PRINCIPLE.		
C/ 154 SC 154.7.3	P110	L 39	# 16	It is proposed to replace the current clause text for 154.8.12: "The average input power [amplified] shall be within the limits given in Table 154–9 for black link that contains optical amplifiers. Note that this parameter is paired with					
Maniloff, Eric	Ciena								
Comment Type T	Comment Status D					amplified		ine parameter	
No value in table 154-1	0 for power penalty for unamp	olified application	ons	By "The e	vorogo ir		er [amplified] shall be within	the limite given	in Table 154 O for a
SuggestedRemedy							ptical amplifiers. Note that t		
Add power penalty entr	ŷ			OSNR	(193.6) [a	amplified	, which is defined in 154.8.	4. The average	e input power [amplified
Proposed Response	Response Status W			defines	s the rang	ge over w	hich the requirement for OS	SNR(193.6) nee	eds to be met. "
amplified 80 km applica Therefore the relevant The receiver specificati	specifies parameters and as ation and not a non-specified penalties are provided only fo ion in clause 154.7.2 contains n unamplified applications, bu	unamplified app r the amplified a some addition	lication. application. al parameters to						
C/ 154 SC 154.7.3	P111	L 6	# 17						
Maniloff, Eric	Ciena								
Comment Type T PDL level is low for an	Comment Status D								
SuggestedRemedy									
Increase PDL to 2.5dE	3								
Proposed Response	Response Status W								
PROPOSED REJECT.									

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

C/ 154 SC 154.8.12 Page 12 of 14 11/5/2019 10:26:36 AM

C/ 154	SC 154.8.13	P113	L 9	# 24	C/ 154	SC ·	154.8.16	P113	L23	# 25
Schmitt, M	att	CableLabs	-		Schmitt, N	latt		CableLabs		
Comment T	Туре Т	Comment Status D			Comment	Туре	т	Comment Status D		
Same comment as above for 154.8.12.				The definition in G.698.2 that is being referenced here states in part that: "The receiver						
Suggested	Remedy							ned as the minimum value of ing the maximum BER of the		
Same	Same comment as above for 154.8.12.					tolerated while maintaining the maximum BER of the application. This must be met for all powers between the maximum and minimum mean input power with a transmitter with				
Proposed F	Response	Response Status W			worst-case values of[list of parameters]. And also that: "The receiver OSNR tolerance is equal to the minimum OSNR at point RS minus the maximum optical path OSNR penalty."					

PROPOSED ACCEPT IN PRINCIPLE.

It is proposed to replace the current clause text for 154.8.13:

"The average input power [unamplified] shall be within the limits given in Table 154–9 for a black link that does not contain any optical amplifiers. Note that this parameter is paired with OSNR(193.6) [unamplified]."

Bv:

"The average input power [unamplified] shall be within the limits given in Table 154–9 for a black link that does not contain any optical amplifiers. Note that this parameter is paired with OSNR(193.6) [unamplified], which is defined in 154.8.15. The average input power [unamplified] defines the range over which the requirement for OSNR(193.6) [unamplified] needs to be met."

And to add to the end of Clause 154.8.15:

"The requirement for OSNR(193.6) [unamplified] is intended to specify usage of the same receiver for unamplified applications with likely shorter links than 80 km, without including requirements for the associated medium."

C/ 154	SC 154.8.16		P113	L 23	# 25
Schmitt, M	latt		CableLabs		
•		~			

equal to the minimum OSNR at point RS minus the maximum optical path OSNR penalty. We have defined a maximum optical path OSNR penalty of 3 dB, and have therefore established that the value of this parameter is 16.5 dB (in Table 154-9). This is based off of subtracting 3 from the Minimum OSNR(193.6) [amplified] value of 19.5 dB. However, that last parameter is only relevant to the amplified case; we also have a Minimum average input power [unamplified] which is -30, and an associated Minimum OSNR(193.6) [unamplified] of 35 dB (meaning that achieving a minimum average input power of -30 dBm is only possible when the OSNR is 35 dB or greater). However, a strict reading of the definition for Receiver OSNR tolerance implies that -30 dBm would also have to be met at 16.5 dB OSNR, which is not realistic or intended.

SuggestedRemedy

There are several possible options for addressing this. One would be to create separate Receiver OSNR tolerance parameters for the amplified and unamplified cases. Another would be to clarify that this parameter applies only in the amplified case. Another would be to introduce a more thorough explanation of the relationship between power and OSNR in the requirements (as suggested above). A combination of more than one of these solutions would likely work as well.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Add a note to Clause 154.8.16:

NOTE: For the application specified in this Clause, it is assumed that the black link defined in 154.6 contains one (or more) optical amplifiers and therefore the black link parameters in 154.7.3 are only specified for this application and not the unamplified case."

C/ 154 SC 154.8.16

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C/ 154	SC 154.9.2	P114	L 7	# 37
Trowbridge, Steve		Nokia		
0	Type T	Comment Status D		
	are combined ov	of interface for 802.3 where er the same fiber inside of the		
Suggested	dRemedy			
that of	ptical safety at a r	oh that this text applies to th nulti-channel reference poir he scope of this standard.		
Proposed	Response	Response Status W		
Insert NOTE TP3, a	: The laser safety as shown in Figur	IN PRINCIPLE. rst paragraph of 154.9.2.: requirements apply only to e 154-3, and not to any (mu ope of clause 154.		

C/ 154 SC 154.9.2