can be regarded as generic and not specific. One potential option is to delete this definition informative. Beca or alternatively we would need a rewrite appropriate to m		P115 L:	# 54.6
Comment Type TR Comment Status D Comment Type T Concerns have been raised about the actual need for a definition for DWDM system, which can be regarded as generic and not specific. One potential option is to delete this definition or alternatively we would need a rewrite In resolution to c informative. Beca appropriate to m			21 # <u>R1-3</u>
Concerns have been raised about the actual need for a definition for DWDM system, which can be regarded as generic and not specific. One potential option is to delete this definition or alternatively we would need a rewrite	Hua	awei Technologies	; Co., Ltd
can be regarded as generic and not specific. One potential option is to delete this definition informative. Because or alternatively we would need a rewrite appropriate to m	Comment Statu	us A	
		erance is equivale	arameter Receiver sensitivity nt to Receiver sensitivity it is as well.
SuggestedRemedy SuggestedRemedy			
Delete the definition for DWDM system In Table 154-8 m	ake Receiver OSNR tole	erance "informative	e" by adding words to note b.
Proposed Response Response Status W Response	Response Statu	is C	
PROPOSED ACCEPT IN PRINCIPLE. ACCEPT IN PRI	CIPLE.		
For task force discussion.	litarial licance Alac ma	ke equivalent ehe	nano to 154.0 16 to romava
	e limits". Add new sente		nges to 154.9.16 to remove ance is informative and
C/ 154 SC 154.6 P111 L21 # R1-2 compliance is no	required."		
Stassar, Peter Huawei Technologies Co., Ltd C/ 154 SC 154	9 16 F	2 119 L:	21 # R1-4
Comment Type ER Comment Status D Stassar, Peter		awei Technologies	
During the review of comments to D3.0 it was agreed to add some text on bi-directional operation. Unfortanately the editor omitted to do that. Need to add text Comment Type T		0	00., Eld
			t should be clarified to state that
Add "Furthermore bi-directional transmission over the multi-channel fiber inside the black link is not precluded." to the Note on line 43 of page Clause 154. The	could be a precedent to	unnecessarily cop G.698.2 are quite	However, this would apply to all by material from G.698.2 into explicit with respect to worst
SuggestedRemedy			
Proposed Response Response Status W Delete the Note Delete the Note	Receiver OSNR tolerar	nce in 154.9.16	
Proposed Response Proposed Response	Response Statu	is W	
Implement remedy with editorial license. PROPOSED AC	EPT IN PRINCIPLE.		
For TF discussion			

1 SC 1.4.160a P22 L14 # R1-5	C/ 1 SC 1.4.237b P22 L34 # R1-7
wbridge, Stephen Nokia	Trowbridge, Stephen Nokia
omment Type ER Comment Status D	Comment Type ER Comment Status D
"black link" refers to a method of link specification, not the link itself.	"DWDM link" is an unnecessary term, which usually has identical meaning to "DWDM channel" where it is used in the draft.
lggestedRemedy	Suggested Remedy
Remove the definition for "black link". In its place, insert "black link methodology - the	Remove the definition for DWDM link. Related changes to the draft are covered in other
specification of the input, output, and transfer characteristics of the uni-directional transmission path between TP2 to TP3 for a given DWDM channel, without specifying how	
the transmission path is implemented. (See, for example, IEEE Std 802.3, Clause 154,	Proposed Response Response Status W
Figure 154–3)". Replace all instances of "black link" used as a noun with "DWDM channel" throughout the	
draft.	
Ensure that all instances of "black link" as an adjective use the consistent wording "black link methodology," (athor than "black link engreesh") throughout the dreft	For task force discussion.
link methodology" (rather than "black link approach") throughout the draft.	CI 1 SC 1.4.237c P22 L37 # R1-8
oposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Trowbridge, Stephen Nokia
FROFUSED ACCEPT IN FRINCIPLE.	Comment Type ER Comment Status D
For task force discussion.	DWDM PHY is an unnecessary and misleading definition. The reference points adjacent to
/ 1 SC 1.4.237a P22 L31 # R1-6	the PHY (TP2 and TP3) are single-channel reference points with no DWDM present. The fact that the transmission paths (DWDM channels) used by multiple PHYs may be
rowbridge, Stephen Nokia	combined using DWDM in the middle of the link doesn't need to be reflected in how the
omment Type ER Comment Status D	PHY is named.
Since "DWDM channel" will replace most instances of "black link" as a noun, clarify that the	SuggestedRemedy
Since "DWDM channel" will replace most instances of "black link" as a noun, clarify that the behavior of a DWDM channel is specified using the black link methodology.	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY"
	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft.
behavior of a DWDM channel is specified using the black link methodology. uggestedRemedy Add a sentence to the end of the definition of "DWDM channel" to read "The input, output,	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft. Proposed Response Response Status W
behavior of a DWDM channel is specified using the black link methodology. <i>uggestedRemedy</i> Add a sentence to the end of the definition of "DWDM channel" to read "The input, output, and transfer characteristics of the uni-directional transmission path between TP2 and TP3	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft. Proposed Response Response Status W
behavior of a DWDM channel is specified using the black link methodology. <i>uggestedRemedy</i> Add a sentence to the end of the definition of "DWDM channel" to read "The input, output, and transfer characteristics of the uni-directional transmission path between TP2 and TP3 for a DWDM channel are specified using the black link methodology."	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft. Proposed Response Response Status W
behavior of a DWDM channel is specified using the black link methodology. <i>uggestedRemedy</i> Add a sentence to the end of the definition of "DWDM channel" to read "The input, output, and transfer characteristics of the uni-directional transmission path between TP2 and TP3 for a DWDM channel are specified using the black link methodology."	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
behavior of a DWDM channel is specified using the black link methodology. <i>uggestedRemedy</i> Add a sentence to the end of the definition of "DWDM channel" to read "The input, output, and transfer characteristics of the uni-directional transmission path between TP2 and TP3 for a DWDM channel are specified using the black link methodology." <i>roposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft. Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. For task force discussion. Cl 1 SC 1.4.237d P2 L40
behavior of a DWDM channel is specified using the black link methodology. <i>uggestedRemedy</i> Add a sentence to the end of the definition of "DWDM channel" to read "The input, output, and transfer characteristics of the uni-directional transmission path between TP2 and TP3 for a DWDM channel are specified using the black link methodology." <i>roposed Response</i> Response Status W	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft. Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. For task force discussion. Cl 1 SC 1.4.237d P2 L40
behavior of a DWDM channel is specified using the black link methodology. <i>uggestedRemedy</i> Add a sentence to the end of the definition of "DWDM channel" to read "The input, output, and transfer characteristics of the uni-directional transmission path between TP2 and TP3 for a DWDM channel are specified using the black link methodology." <i>roposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft. Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. For task force discussion. Cl 1 SC 1.4.237d Prowbridge, Stephen Nokia
behavior of a DWDM channel is specified using the black link methodology. <i>uggestedRemedy</i> Add a sentence to the end of the definition of "DWDM channel" to read "The input, output, and transfer characteristics of the uni-directional transmission path between TP2 and TP3 for a DWDM channel are specified using the black link methodology." <i>roposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft. Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. For task force discussion. C/ 1 SC 1.4.237d P22 L40 Trowbridge, Stephen Nokia Comment Type ER
behavior of a DWDM channel is specified using the black link methodology. <i>uggestedRemedy</i> Add a sentence to the end of the definition of "DWDM channel" to read "The input, output, and transfer characteristics of the uni-directional transmission path between TP2 and TP3 for a DWDM channel are specified using the black link methodology." <i>roposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft. Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. For task force discussion. C/ 1 SC 1.4.237d P22 L40 Trowbridge, Stephen Nokia Comment Type ER Comment Status D "DWDM System" is an unnecessary term.
behavior of a DWDM channel is specified using the black link methodology. <i>uggestedRemedy</i> Add a sentence to the end of the definition of "DWDM channel" to read "The input, output, and transfer characteristics of the uni-directional transmission path between TP2 and TP3 for a DWDM channel are specified using the black link methodology." <i>roposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. For task force discussion. C/ 1 SC 1.4.237d P22 L40 # R1-9 Trowbridge, Stephen Nokia Comment Type ER Comment Status D "DWDM System" is an unnecessary term. SuggestedRemedy
behavior of a DWDM channel is specified using the black link methodology. <i>uggestedRemedy</i> Add a sentence to the end of the definition of "DWDM channel" to read "The input, output, and transfer characteristics of the uni-directional transmission path between TP2 and TP3 for a DWDM channel are specified using the black link methodology." <i>roposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft. Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. For task force discussion. Cl 1 SC 1.4.237d P22 L40 Trowbridge, Stephen Nokia Comment Type ER Comment Type ER Comment Type ER Comment Type D "DWDM System" is an unnecessary term. SuggestedRemedy Delete the definition for "DWDM System". Related changes covered in other comments.
behavior of a DWDM channel is specified using the black link methodology. <i>uggestedRemedy</i> Add a sentence to the end of the definition of "DWDM channel" to read "The input, output, and transfer characteristics of the uni-directional transmission path between TP2 and TP3 for a DWDM channel are specified using the black link methodology." <i>roposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft. Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. For task force discussion. Cl 1 SC 1.4.237d P22 L40 Trowbridge, Stephen Nokia Comment Type ER Comment Type ER Comment Status D "DWDM System" is an unnecessary term. SuggestedRemedy Delete the definition for "DWDM System". Related changes covered in other comments. Proposed Response Response Status
behavior of a DWDM channel is specified using the black link methodology. <i>uggestedRemedy</i> Add a sentence to the end of the definition of "DWDM channel" to read "The input, output, and transfer characteristics of the uni-directional transmission path between TP2 and TP3 for a DWDM channel are specified using the black link methodology." <i>roposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE. For task force discussion.	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. For task force discussion. Cl 1 SC 1.4.237d P22 L40 # R1-9 Trowbridge, Stephen Nokia Comment Type ER Comment Status D "DWDM System" is an unnecessary term. SuggestedRemedy Delete the definition for "DWDM System". Related changes covered in other comments. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. For task force discussion.
behavior of a DWDM channel is specified using the black link methodology. <i>uggestedRemedy</i> Add a sentence to the end of the definition of "DWDM channel" to read "The input, output, and transfer characteristics of the uni-directional transmission path between TP2 and TP3 for a DWDM channel are specified using the black link methodology." <i>roposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Remove the definition DWDM PHY. Replace "DWDM PHY" with "100GBASE-ZR PHY" throughout the draft. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. For task force discussion. Image: Color task force discussion. Cl 1 SC 1.4.237d P22 L40 Image: Response Status Trowbridge, Stephen Nokia Comment Type ER Comment Status D "DWDM System" is an unnecessary term. SuggestedRemedy Delete the definition for "DWDM System". Related changes covered in other comments. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. For task force discussion.

7 1	SC 1.4.400a	P 22	L 45	# <u>R</u> 1-10	C/ 154 SC 154	l.6	P 111	L 27	# <u>R</u> 1-12
rowbridg	ge, Stephen	Nokia			Trowbridge, Stephen		Nokia		
ommen	t Type ER	Comment Status D			Comment Type E	R Comn	nent Status D		
		<i>I</i> link is removed by another ation dependent loss	[·] comment, but isr	n't really necessary for	"black link" will h "DWDM link" is r	ave been chang emoved by ano	ed to "DWDM char ther comment.	nnel" by an earlie	r comment. The term
uggeste	dRemedy				SuggestedRemedy				
to va	riation of the state	f polarization dependent los of polarization of an optical	signal over all sta		Change "Functio contained within		y the DWDM link a nnel include ."	re ." to "Functions	s that may be
		lency or wavelength range.'			Proposed Response	Respo	nse Status W		
	l Response POSED ACCEPT	Response Status W			PROPOSED RE	JECT.			
For ta	ask force discussion		L8	# R1-11	have not been ag The meaning of '	greed by the Tas 'DWDM channe	sk Force. I" is technically not	equivalent to "bla	suggestes changes ack link" (or "DWDM suitable replacement
		Nokia	20	π [XI-11	term for "black lir				
ommen	ge, Stephen <i>t Type</i> ER	Comment Status D			C/ 154 SC 154	6	P111	L38	# R1-13
	51	ion "DWDM system" from e	volumetion of 100	BASE-7R aMALIType				L 30	# R1-13
<i>uggeste</i> Char up to	edRemedy ige "100GBASE-R at least 80 km as	PCS/100GBASE-ZR PMA specified in Clause 154" to each up to 80km as specifie	over a DWDM sys "100GBASE-R P0	stem PMD with reach CS/100GBASE-ZR	The term DWDM SuggestedRemedy	R Comn	Nokia nent Status D d to remove by and	ther comment	
oposed	l Response	Response Status W			Change "DWDM	link" to "DWDN	I channel"		
PRO	POSED ACCEPT	IN PRINCIPLE.			Proposed Response PROPOSED RE		nse Status W		
For ta	ask force discussion	on.			See response to	comment R1-1	2.		
					The response to	comment R1-12	2 was:		
					PROPOSED RE	JECT.			
					have not been ag	greed by the Ta	sk Force.		suggestes changes ack link" (or "DWDM

C/ 154 SC 154.6	P 112	L15	# R1-14	C/ 154	SC 154.6	P 112	L 22	# <u>R</u> 1-15		
Trowbridge, Stephen	Nokia			Trowbridge	e, Stephen	Nokia				
Comment Type ER	Comment Status D			Comment	Type ER	Comment Status D				
Figure 154-3 inconsis	stent with terminology update r	esulting from oth	er comments.			following Figure 154-3 to avo	oid the use of dele	eted terms "DWDM		
SuggestedRemedy					nd "DWDM syst	em"				
Remove the words "I "DWDM channel exa	Black link" from the grey box in mple configuration"	Figure 154-3. Cl	nange the figure title to		e the paragraph	following Figure 154-3 to rea				
Proposed Response	Response Status W					PMD is specified for operation onel operates on a frequency				
PROPOSED REJEC	Т.					154-5, which shows the mapp				
See response to com	nment R1-12.			DWDN	I frequency grid	annel center frequencies. This with 100 GHz spacing define ture may support between 1 a	d by Recommen	dation ITU-T G.694.1.		
The response to com	ment R1-12 was:			on a di	ifferent frequend	cy. For a given DWDM chann	el, the 100GBASI	E-ZR Tx, the		
PROPOSED REJEC	т.				ated DWDM cha el center freque	annel, and the 100GBASE-ZF	R Rx are configure	ed to support the same		
The comment include	es some statements which are	not correct The	suggestes changes	Proposed Response Response Status W						
have not been agree	d by the Task Force.			PROP	OSED REJECT					
	/DM channel" is technically not k link") and therefore "DWDM o				omment includes the indicate terr	s statements that are not corr ns.	ect. The Task Fo	rce has not agreed to		
				channe	els inside the D	support a single channel. Th NDM black link, captured in t etric crosstalk at TP3.				
				See al	so response to	comment R1-12.				
				The re	sponse to comr	nent R1-12 was:				
				PROP	OSED REJECT					
				The se						

The comment includes some statements which are not correct. The suggestes changes

have not been agreed by the Task Force. The meaning of "DWDM channel" is technically not equivalent to "black link" (or "DWDM link" or "DWDM black link") and therefore "DWDM channel" is not a suitable replacement term for "black link".

C/ 1	SC 1.4.35b	P 22	L 9	# R1-16	C/ 30	SC 30.5.1.1	.29	P 28	L 30	# <u>R</u> 1-19
luber, Th	omas	Nokia			Huber, The	omas		Nokia		
Comment	Type E	Comment Status D		bucket	Comment	Туре Е	Commer	nt Status D		bucke
Since	this is the first use	e of DP-DQPSK it should be	expanded		Missir	ng an 's' in suppo	orts			
Suggested	dRemedy				Suggested	dRemedy				
Expar DQPS		dual polarization differential	quadrature phase	e shift keying (DP-					PHY that suppor upports RS-FEC	t RS-FEC at the MDI…" at the MDI…"
Proposed	Response	Response Status W			Proposed	Response	Response	e Status W		
PROF	POSED ACCEPT.				PROP	POSED ACCEPT	Τ.			
CI 30	SC 30.5.1.1.28	8 P 2 8	L13	# R1-17	CI 30	SC 30.5.1.1	.29	P 28	L 31	# <u>R1-20</u>
Huber, Th	omas	Nokia			Huber, The	omas		Nokia		
Comment	Type E	Comment Status D		bucket	Comment	Type TR	Commer	nt Status D		
Missir	ng an 's' in support	S					•	on of what value	the attribute take	es for a PHY that does
					not su	pport RS-FEC a	at the MDI.			
Suggested	dRemedy									
Chang	ge from: "A read-or	nly value that indicates if a F			Suggested	dRemedy				
Chang to: "A	ge from: "A read-or read-only value th	at indicates if a PHY that su			Suggested Add te	<i>dRemedy</i> ext to clarify - eit	her indicate t			or PHYs that don't plv to such PHYs
Chang to: "A Proposed	ge from: "A read-ou read-only value th <i>Response</i>				Suggested Add te suppo	<i>dRemedy</i> ext to clarify - eit rt RS-FEC at the	her indicate t e MDI, or indi	icate that the att		or PHYs that don't ply to such PHYs.
Chang to: "A Proposed	ge from: "A read-or read-only value th	at indicates if a PHY that su			Suggested Add te suppo Proposed	<i>dRemedy</i> ext to clarify - eit	her indicate t e MDI, or indi <i>Response</i>	icate that the att e S <i>tatu</i> s W		
to: "A Proposed	ge from: "A read-ou read-only value th <i>Response</i>	at indicates if a PHY that su Response Status W			Suggested Add te suppo Proposed PROF	dRemedy ext to clarify - eit rt RS-FEC at the Response POSED ACCEP1	ther indicate t e MDI, or indi <i>Responsi</i> T IN PRINCIF	icate that the att e <i>Status</i> W PLE.	ribute doesn't ap	ply to such PHYs.
Chang to: "A Proposed PROF Cl 30	ge from: "A read-or read-only value th <i>Response</i> POSED ACCEPT. SC 30.5.1.1.2	at indicates if a PHY that su Response Status W	pports RS-FEC	at the MDI…"	Suggested Add te suppo Proposed PROF At the	dRemedy axt to clarify - eit rt RS-FEC at the Response POSED ACCEPT end of BEHAVI	her indicate t e MDI, or indi <i>Response</i> T IN PRINCIF	icate that the att e <i>Status</i> W PLE. ED AS: section a	ribute doesn't ap	
Chang to: "A Proposed PROF	ge from: "A read-or read-only value th <i>Response</i> POSED ACCEPT. SC 30.5.1.1.28 omas	at indicates if a PHY that su Response Status W 8 P28	pports RS-FEC	at the MDI…"	Suggested Add te suppo Proposed PROF At the not su	dRemedy act to clarify - eit rt RS-FEC at the Response POSED ACCEPT end of BEHAVI pport RS-FEC a	ther indicate t e MDI, or indi <i>Response</i> T IN PRINCIF OUR DEFINE at the MDI, thi	icate that the att e Status W PLE. ED AS: section a is attribute is not	ribute doesn't ap add new sentence t applicable."	ply to such PHYs. e "For a PHY that does
Chang to: "A Proposed PROF CI 30 Huber, Th Comment There	ge from: "A read-or read-only value th <i>Response</i> POSED ACCEPT. SC 30.5.1.1.28 omas <i>Type</i> TR should be a clear	at indicates if a PHY that su Response Status W 8 P28 Nokia Comment Status D specification of what value s	pports RS-FEC	at the MDI…" # <mark>R1-18</mark>	Suggested Add te suppo Proposed PROF At the	dRemedy axt to clarify - eit rt RS-FEC at the Response POSED ACCEPT end of BEHAVI	ther indicate t e MDI, or indi <i>Response</i> T IN PRINCIF OUR DEFINE at the MDI, thi	icate that the att e <i>Status</i> W PLE. ED AS: section a	ribute doesn't ap	ply to such PHYs.
Chang to: "A Proposed PROF CI 30 Huber, Th Comment There	ge from: "A read-or read-only value th <i>Response</i> POSED ACCEPT. SC 30.5.1.1.2 omas <i>Type</i> TR	at indicates if a PHY that su Response Status W 8 P28 Nokia Comment Status D specification of what value s	pports RS-FEC	at the MDI…" # <mark>R1-18</mark>	Suggestee Add te suppo Proposed PROP At the not su C/ 30 Huber, The	dRemedy addremedy ext to clarify - eit rt RS-FEC at the Response POSED ACCEPT end of BEHAVI pport RS-FEC a SC 30.5.1.1	ther indicate t e MDI, or indi <i>Response</i> T IN PRINCIF OUR DEFINE at the MDI, thi .30	icate that the att e Status W PLE. ED AS: section a is attribute is not P 28 Nokia	ribute doesn't ap add new sentence t applicable."	ply to such PHYs. e "For a PHY that does
Chang to: "A Proposed PROF Cl 30 Huber, Th Comment There not su Suggested	ge from: "A read-on read-only value th <i>Response</i> POSED ACCEPT. SC 30.5.1.1.28 omas <i>Type</i> TR should be a clear upport RS-FEC at t dRemedy	at indicates if a PHY that su Response Status W 8 P28 Nokia Comment Status D specification of what value the MDI.	pports RS-FEC	at the MDI…" # <u>R1-18</u> es for a PHY that does	Suggested Add te suppo Proposed PROP At the not su CI 30 Huber, The Comment	dRemedy ext to clarify - eit rt RS-FEC at the Response POSED ACCEPT end of BEHAVI pport RS-FEC a SC 30.5.1.1 omas Type E	ther indicate t e MDI, or indi <i>Response</i> T IN PRINCIF OUR DEFINE at the MDI, thi .30	icate that the att e Status W PLE. ED AS: section a is attribute is not P28	ribute doesn't ap add new sentence t applicable."	ply to such PHYs. e "For a PHY that does
Chang to: "A Proposed PROF CI 30 Huber, Th Comment There not su Suggested Add te	ge from: "A read-on read-only value th <i>Response</i> POSED ACCEPT. SC 30.5.1.1.28 omas <i>Type</i> TR should be a clear upport RS-FEC at t <i>dRemedy</i> ext to clarify - eithe	at indicates if a PHY that su Response Status W 8 P28 Nokia Comment Status D specification of what value is the MDI. er indicate the value that the	pports RS-FEC	at the MDI…" # <u>R1-18</u> es for a PHY that does or PHYs that don't	Suggested Add te suppo Proposed PROP At the not su CI 30 Huber, The Comment	dRemedy addremedy ext to clarify - eit rt RS-FEC at the Response POSED ACCEPT end of BEHAVI pport RS-FEC a SC 30.5.1.1	ther indicate t e MDI, or indi <i>Response</i> T IN PRINCIF OUR DEFINE at the MDI, thi .30	icate that the att e Status W PLE. ED AS: section a is attribute is not P 28 Nokia	ribute doesn't ap add new sentence t applicable."	ply to such PHYs. e "For a PHY that does # <u>R1-21</u>
Cl 30 Huber, The Cl 30 Huber, The Comment There not su Suggested Add te suppo	ge from: "A read-on read-only value th <i>Response</i> POSED ACCEPT. SC 30.5.1.1.28 omas <i>Type</i> TR should be a clear pport RS-FEC at the <i>dRemedy</i> ext to clarify - eithe rt RS-FEC at the N	at indicates if a PHY that su Response Status W 8 P28 Nokia Comment Status D specification of what value the the MDI. er indicate the value that the MDI, or indicate that the attr	pports RS-FEC	at the MDI…" # <u>R1-18</u> es for a PHY that does or PHYs that don't	Suggested Add te suppo Proposed PROP At the not su C/ 30 Huber, The Comment Missir Suggested	dRemedy dremedy ext to clarify - eit rt RS-FEC at the Response POSED ACCEPT end of BEHAVI pport RS-FEC at SC 30.5.1.1. omas Type E ng an 's' in support dRemedy	ther indicate t e MDI, or indi <i>Response</i> T IN PRINCIF OUR DEFINE at the MDI, thi .30 <i>Commer</i> orts	icate that the att e Status W PLE. ED AS: section a is attribute is not P28 Nokia nt Status D	ribute doesn't ap add new sentence t applicable." <i>L</i> 47	ply to such PHYs. e "For a PHY that does # <u>R1-21</u> <i>bucke</i>
Chang to: "A Proposed PROF CI 30 Huber, Th Comment There not su Suggested Suggested Suggested Add te suppo	ge from: "A read-on read-only value th <i>Response</i> POSED ACCEPT. <i>SC</i> 30.5.1.1.28 omas <i>Type</i> TR should be a clear upport RS-FEC at the <i>dRemedy</i> ext to clarify - eithe rt RS-FEC at the N <i>Response</i>	at indicates if a PHY that su Response Status W 8 P28 Nokia Comment Status D specification of what value the the MDI. er indicate the value that the MDI, or indicate that the attri Response Status W	pports RS-FEC	at the MDI…" # <u>R1-18</u> es for a PHY that does or PHYs that don't	Suggested Add te suppo Proposed PROP At the not su C/ 30 Huber, The Comment Missir Suggested Chang	dRemedy axt to clarify - eit rt RS-FEC at the Response POSED ACCEPT end of BEHAVI pport RS-FEC a SC 30.5.1.1. omas Type E ng an 's' in suppo dRemedy ge from: "A read	ther indicate t e MDI, or indi <i>Response</i> T IN PRINCIF OUR DEFINE at the MDI, thi .30 <i>Commer</i> orts	icate that the att e Status W PLE. ED AS: section a is attribute is not P28 Nokia nt Status D nat indicates if a	ribute doesn't ap add new sentence t applicable." <i>L</i> 47 PHY that suppor	ply to such PHYs. e "For a PHY that does # <u>R1-21</u> <i>bucke</i> t RS-FEC at the MDI"
Chang to: "A Proposed PROF CI 30 Huber, Th Comment There not su Suggested Suggested Suggested Add te suppo	ge from: "A read-on read-only value th <i>Response</i> POSED ACCEPT. SC 30.5.1.1.28 omas <i>Type</i> TR should be a clear pport RS-FEC at the <i>dRemedy</i> ext to clarify - eithe rt RS-FEC at the N	at indicates if a PHY that su Response Status W 8 P28 Nokia Comment Status D specification of what value the the MDI. er indicate the value that the MDI, or indicate that the attri Response Status W	pports RS-FEC	at the MDI…" # <u>R1-18</u> es for a PHY that does or PHYs that don't	Suggested Add te suppo Proposed PROP At the not su C/ 30 Huber, The Comment Missir Suggested Chang to: "A	Areanedy Areanedy ext to clarify - eit rt RS-FEC at the Response POSED ACCEPT end of BEHAVI pport RS-FEC a SC 30.5.1.1. omas Type E ng an 's' in support Aready ge from: "A read read-only value	ther indicate t e MDI, or indi <i>Response</i> T IN PRINCIF OUR DEFINE at the MDI, thi .30 <i>Commer</i> orts	icate that the att e Status W PLE. ED AS: section a is attribute is not P28 Nokia Int Status D Inat indicates if a s if a PHY that s	ribute doesn't ap add new sentence t applicable." <i>L</i> 47	ply to such PHYs. e "For a PHY that does # <u>R1-21</u> <i>bucke</i> t RS-FEC at the MDI"
Cl 30 Huber, There not su Suggestee Add te suppo Proposed PROF At the	ge from: "A read-on read-only value th <i>Response</i> POSED ACCEPT. <i>SC</i> 30.5.1.1.24 omas <i>Type</i> TR should be a clear upport RS-FEC at the <i>dRemedy</i> ext to clarify - eithe rt RS-FEC at the I <i>Response</i> POSED ACCEPT I end of BEHAVIOU	at indicates if a PHY that su Response Status W 8 P28 Nokia Comment Status D specification of what value the the MDI. er indicate the value that the MDI, or indicate that the attri Response Status W	pports RS-FEC	at the MDI" # <u>R1-18</u> es for a PHY that does or PHYs that don't ply to such PHYs.	Suggested Add te suppo Proposed PROF At the not su C/ 30 Huber, The Comment Missin Suggested Chang to: "A	Areanedy Areanedy ext to clarify - eit rt RS-FEC at the Response POSED ACCEPT end of BEHAVI pport RS-FEC a SC 30.5.1.1. omas Type E ng an 's' in support Aready ge from: "A read read-only value	ther indicate t e MDI, or indi <i>Response</i> T IN PRINCIF OUR DEFINE at the MDI, thi .30 <i>Commer</i> orts I-only value th that indicates <i>Response</i>	icate that the att e Status W PLE. ED AS: section a is attribute is not P28 Nokia nt Status D nat indicates if a	ribute doesn't ap add new sentence t applicable." <i>L</i> 47 PHY that suppor	ply to such PHYs. e "For a PHY that does # <u>R1-21</u> <i>bucke</i> t RS-FEC at the MDI"

There should be a clear specification of what value the attribute takes for a PHY that does not support RS-FEC at the MDI. <i>ggestedRemedy</i> Add text to clafify - either indicate the value that the attribute takes for PHYs that don't support RS-FEC at the MDI, or indicate that the attribute takes for PHYs that don't support RS-FEC at the MDI, or indicate that the attribute takes for PHYs that don't support RS-FEC at the MDI, or indicate that the attribute takes for PHYs that does not support RS-FEC at the MDI, this attribute is not applicable." At the end of BEHAVIOUR DEFINED AS: section add new sentence "For a PHY that does not support RS-FEC at the MDI, this attribute is not applicable." At 5 SC 45.2.1.1.133a.1 P33 L30 # R1-23 uber, Thomas Nokia comment Type E Comment Status D A channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequency." roposed Response Response Status W PROPOSED ACCEPT. C/ 154 SC 154.6 P111 L17 # R1-27 Huber, Thomas Nokia	C/ 30	SC 30.5.1.1.3	0 P28	L 48	# R1-22	C/ 153	SC	153.2.3.2.7	P 92	L 40	# <u>R</u> 1-25
There should be a clear specification of what value the attribute takes for a PHY that does not support RS-FEC at the MDI. Missing an article before FEC frame. Add text to clarify - either indicate the value that the attribute takes for PHYs that don't support RS-FEC at the MDI, or indicate that the attribute doesn't apply to such PHYs. Change from: "51 groups of 16 octets are distributed from FEC frame." to: "51 groups of noctes are distributed from the FEC frame." PROPOSED ACCEPT IN PRINCIPLE. At the end of BEHAVIOUR DEFINED AS: section add new sentence "For a PHY that does not support RS-FEC at the MDI, this attribute is not applicable." Mokia Very RoPOSED ACCEPT IN PRINCIPLE. Cl 154 SC 154.1 P105 L8 # F1-26 At the end of BEHAVIOUR DEFINED AS: section add new sentence "For a PHY that does not support RS-FEC at the MDI, this attribute is not applicable." Nokia A channel index corresponds to a single (center) frequency. Mokia Suggested/Remedy Change from: "The channel index number indicates the corresponding optical frequency." Suggested/Remedy Suggested/Remedy Change from: "The channel index number indicates the corresponding optical frequency." P37 L39 # R1-24 Cl 154 SC 154.6 P111 L17 # R1-27 Valer, Thomas Nokia Suggested/Remedy Comment Type E Comment Status D But Missing a comma Very PROPOSED ACCEPT. Cl 154 SC 154.6 P111 L17 # R1-27 H1-27	Huber, The	omas	Nokia			Huber, The	omas		Nokia		
not support RS-FEC at the MDI. gggestedRemedy Add text to clarify - either indicate the value that the attribute takes for PHYs that don't support RS-FEC at the MDI, or indicate that the attribute doesn't apply to such PHYs. <i>roposed Response Response Status</i> W PROPOSED ACCEPT IN PRINCIPLE. At the end of BEHAVIOUR DEFINED AS: section add new sentence "For a PHY that does of subsport RS-FEC at the MDI, this attribute is not applicable." 45 SC 452.11.133a.1 P33 L30 # R1-23 uber, Thomas Nokia Duplication of "fiber based", and missing a hyphen SuggestedRemedy Change from: "The channel index number indicates the corresponding optical frequency." W PROPOSED ACCEPT. Vater, Thomas Nokia Comment Status D But PROPOSED ACCEPT. Comment Status W Proposed Response Response Status W PROPOSED ACCEPT. Comment Status D But Vater, Thomas Nokia Comment Status D But A channel index number indicates the corresponding optical frequency." Copsed Response Response Status W PROPOSED ACCEPT. Vater, Thomas Nokia Comment Status D But A channel index number indicates the corresponding optical fre	Comment	Type TR	Comment Status D			Comment	Туре	Е	Comment Status D		bucke
JuggestedRemedy Change from: "51 groups of 16 octets are distributed from FEC frame." to: "51 groups of octets are distributed from the FEC frame." Add text to clarify - either indicate the value that the attribute doesn't apply to such PHYs. Change from: "51 groups of 16 octets are distributed from FEC frame." roppsed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. At the end of BEHAVIOUR DEFINED AS: section add new sentence "For a PHY that does not support RS-FEC at the MDI, this attribute is not applicable." Cl 154 SC 154.1 P105 L8 # [R1.26] 45 SC 452.11.1133a.1 P33 L30 # [R1.23] Huber, Thomas Nokia ormment Type E Comment Status D But A channel index number indicates the corresponding optical frequency." Sc 452.11.133e.2 P37 L39 # [R1.24] Vaber, Thomas Nokia Sc 452.11.133e.2 P37 L39 # [R1.24] Vaber, Thomas Nokia Comment Type E Comment Status D But Vaber, Thomas Nokia Comment Status D But A channel index number indicates the corresponding optical frequency." Ci 154 SC 154.6 P111 L17 # [R1-27] Vaber, Thomas Nokia Comment Type E Comment Type E Comment Type E Co				e the attribute take	es for a PHY that does		0		FEC frame		
Add text to clarify - either indicate the value that the attribute takes for PHYs that don't support RS-FEC at the MDI, or indicate that the attribute orsn't apply to such PHYs. octets are distributed from the FEC frame." PROPOSED ACCEPT IN PRINCIPLE. At the end of BEHAVIOUR DEFINED AS: section add new sentence "For a PHY that does not support RS-FEC at the MDI, this attribute is not applicable." Pth Proposed Response Response Status W PROPOSED ACCEPT. (45 SC 45.2.1.1.133a.1 P33 L30 # R1-23 uber, Thomas Nokia omment Type E Comment Status D A channel index corresponds to a single (center) frequency uggestedRemedy Change from: "The channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequency." opposed Response Response Status W PROPOSED ACCEPT. (154 SC 154.6 P111 L17 # R1-27 Huber, Thomas Nokia omment Type E Comment Status D A channel index corresponds to a single (center) frequency uggestedRemedy A channel index corresponds to a single (center) frequency uggestedRemedy A channel index corresponds to a single (center) frequency uggestedRemedy A channel index corresponds to a single (center) frequency uggestedRemedy A channel index corresponds to a single (center) frequency uggestedRemedy A channel index corresponds to a single (center) frequency uggestedRemedy Channel index number indicates the corresponding optical frequencies* Proposed Response Response Status D A channel index corresponds to a single (center) frequency uggestedRemedy Channel index number indica	Suggested	Remedy				00		-	s of 16 octats are distributed	from FEC from	ne " to: "51 groups of 16
rapposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. At the end of BEHAVIOUR DEFINED AS: section add new sentence "For a PHY that does not support RS-FEC at the MDI, this attribute is not applicable." PROPOSED ACCEPT. If 45 SC 45.21.1.133a.1 P33 L30 # 1-23 uber, Thomas Nokia Omment Type E Comment Status D A channel index corresponds to a single (center) frequency. Upplication of "fiber based", and missing a hyphen SuggestedRemedy Change from: "The channel index number indicates the corresponding optical frequencies" K1123 W VPROPOSED ACCEPT. V Proposed Response Response Status W VPROPOSED ACCEPT. V Proposed Response Response Status W VPROPOSED ACCEPT. V Proposed Response Response Status W VPROPOSED ACCEPT. V V Proposed Response Response Status W VPROPOSED ACCEPT. V V V V V V V Valuer, Thomas Nokia W V V V V V V V V V V <td></td>											
PROPOSED ACCEPT IN PRINCIPLE. At the end of BEHAVIOUR DEFINED AS: section add new sentence "For a PHY that does not support RS-FEC at the MDI, this attribute is not applicable." 145 SC 45.2.1.1.133a.1 P33 L30 # [1:23] uber, Thomas Nokia Nokia omment Type E Comment Status D A channel index corresponds to a single (center) frequency User Thomas Nokia regestedRemedy Change from: "The channel index number indicates the corresponding optical frequencies" We PROPOSED ACCEPT. 145 SC 45.2.1.1.133e.2 P37 L39 # [1:24] uber, Thomas Nokia We PROPOSED ACCEPT. Ci 154 SC 154.6 P111 L17 # [1:27] 145 SC 45.2.1.1.133e.2 P37 L39 # [1:24] We reprosed Response Response Status W 145 SC 45.2.1.1.133e.2 P37 L39 # [1:24] Huber, Thomas Nokia ormment Type E Comment Status D Bu Missing a comma yagestedRemedy Channel index number indicates the corresponding optical frequencies" Ci 154 SC 154.6 P111 L17			MDI, or indicate that the a	ttribute doesn't ap	ply to such PHYs.	Proposed	Respor	nse	Response Status W		
At the end of BEHAVIOUR DEFINED AS: section add new sentence "For a PHY that does not support RS-FEC at the MDI, this attribute is not applicable." 145 SC 45.2.1.1.133a.1 P33 L30 # R1-23 uber, Thomas Nokia mement Type E Comment Status D A channel index corresponds to a single (center) frequency. 12ggestedRemedy Change from: "The channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequencies" 145 SC 45.2.1.1.133a.2 P37 L39 # R1-24 145 SC 45.2.1.1.133a.2 P37 L39 # R1-24 146 SC 154.6 P111 L17 # R1-27 147 SC 154.6 P111 L17 # R1-27 146 SC 154.6 P111 L17 # R1-27 147 SC 154.6 P111 L17 # R1-27 148 SC 154.6 P111 L17 # R1-27 149 SC 154.6 P111 L17 # R1-27 149 SC 154.6 P111 L17 # R1-27 140 SC 154.6 P111 L17 140 SC 154.6 P111 L17	Proposed	Response	Response Status W			PROP	OSED	ACCEPT.	,		
At the end of BEHAVIOUR DEFINED AS: section add new sentence "For a PHY that does not support RS-FEC at the MDI, this attribute is not applicable." 145 SC 45.2.1.1.133a.1 P33 L30 # R1-23 uber, Thomas Nokia <i>omment Type</i> E Comment Status D A channel index corresponds to a single (center) frequency uggestedRemedy Change from: "The channel index number indicates the corresponding optical frequency." roposed Response Response Status W PROPOSED ACCEPT. 145 SC 45.2.1.1.133e.2 P37 L39 # R1-24 Uber, Thomas Nokia <i>omment Type</i> E Comment Status D A channel index corresponds to a single (center) frequency uggestedRemedy C/ 154 SC 154.6 P111 L17 # R1-27 Huber, Thomas Nokia <i>Comment Type</i> E Comment Status D A channel index corresponds to a single (center) frequency uggestedRemedy C former Type E Comment Status D A channel index corresponds to a single (center) frequency uggestedRemedy C former Type E Comment Status D A channel index corresponds to a single (center) frequency uggestedRemedy C former Type E Comment Status D A channel index corresponds to a single (center) frequency uggestedRemedy C hange from: "The channel index number indicates the corresponding optical frequencies" <i>PROPOSED ACCEPT</i> . <i>C</i> / 154 SC 154.6 P111 L17 # R1-27 Huber, Thomas Nokia <i>Comment Type</i> E Comment Status D <i>SuggestedRemedy</i> Change from: "Laiso referred to as a DWDM channel which is defined" to::" .also referred to as a DWDM channel, which is defined" to::" .also referred to as a DWDM channel, which is defined" to::" .also referred to as a DWDM channel, which is defined" to::" .also <i>Change from:</i> "The channel index number indicates the corresponding optical frequencies"	PROP	OSED ACCEPT	N PRINCIPLE.								
not support RS-FEC at the MDI, this attribute is not applicable." Huber, Thomas Nokia / 45 SC 45.2.1.1.133a.1 P33 L 30 # [1-23] / upper E Comment Status D SuggestedRemedy Change from: "The channel index number indicates the corresponding optical frequency." Change from: "The channel index number indicates the corresponding optical frequency." W PROPOSED ACCEPT. PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 154 SC 154.6 P111 L 17 # [1-27] // 45 SC 45.2.1.1.133e.2 P37 L 39 # [1-24] Missing a comman SuggestedRemedy // 45 SC 45.2.1.1.133e.2 P37 L 39 # [1-24] Missing a comman Nokia // 45 SC 45.2.1.1.133e.2 P37 L 39 # [1-24] Missing a comman Nokia // 46 SC 45.2.1.1.133e.2 P37 L 39 # [1-24] Missing a comman Nokia // actional index corresponds to a single (center) frequency Missing a comman SuggestedRemedy Comment Status D But // 45 SC 45.2.1.1.133e.2 P37 L 39 # [1-24] Missing a comman SuggestedRemedy Comment Status D But	At the	end of BEHAVIO	UR DEFINED AS: section	add new sentence	e "For a PHY that does	C/ 154	SC	154.1	P 105	L 8	# R1-26
145 SC 45.2.1.1.133a.1 P33 L30 # R1-23 uber, Thomas Nokia pamment Type E Comment Status D A channel index corresponds to a single (center) frequency General index number indicates the corresponding optical frequencies" Change from: "which is a single-mode fiber based fiber based dense wavelength division multiplexing (DWDM) channel." Proposed Response Response Status W PROPOSED ACCEPT. P37 L39 # R1-24 uber, Thomas Nokia Nokia comment Type E Comment Status W PROPOSED ACCEPT. P37 L39 # R1-24 uber, Thomas Nokia Nokia Comment Status D mement Type E Comment Status D A channel index corresponds to a single (center) frequency But uggestedRemedy Channel index number indicates the corresponding optical frequencies" Cl 154 SC 154.6 P111 L17 # R1-27 Huber, Thomas Nokia Nokia SuggestedRemedy Change from: "also referred to as a DWDM channel, which is defined" to::"also referred to as a DWDM channel, which is defined" to::"also referred to as a DWDM channel, w						Huber, The	omas		Nokia		
Juber, Thomas Nokia Juber, Thomas Nokia Joint and the based, and thissing a hyphen Juber, Thomas Nokia JuggestedRemedy Change from: "The channel index number indicates the corresponding optical frequencies" To: "The channel index number indicates the corresponding optical frequency." Proposed Response Response Response Status W PROPOSED ACCEPT. P37 L39 # E1-24 Juber, Thomas Nokia Nokia Juber, Thomas Nokia Comment Status D Juber, Thomas Nokia SuggestedRemedy A channel index corresponds to a single (center) frequency Image from: "The channel index corresponds to a single (center) frequency E1-24 Juber, Thomas Nokia Comment Status D A channel index corresponds to a single (center) frequency Gomment Type E Comment Status D A channel index corresponds to a single (center) frequency Gomment Status D Builting a myphen Proposed Response Response Status M Builting a myphen Change from: "The channel index number indicates the corresponding optical frequencies" Change from		SC 45 3 4 4 4	22.4 0.22	1 20	# 04.00	Comment	Туре	Е	Comment Status D		Bucke
SuggestedRemedy Change from: "The channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequency." Change from: "which is a single-mode fiber based fiber based dense wavelength division multiplexing (DWDM) channel." Very PROPOSED ACCEPT. Past A channel index corresponds to a single (center) frequency." Very PROPOSED ACCEPT. Past A channel index corresponds to a single (center) frequency." Very PROPOSED ACCEPT. Past A channel index corresponds to a single (center) frequency." Very PROPOSED ACCEPT. Past A channel index corresponds to a single (center) frequency." Very PROPOSED ACCEPT. Past A channel index corresponds to a single (center) frequency." Very PROPOSED ACCEPT. Past A channel index corresponds to a single (center) frequency." Valuer, Thomas Nokia Omment Type E Comment Status D But Missing a comma A channel index corresponds to a single (center) frequency. Change from: "also referred to as a DWDM channel, which is defined" to::"				L 30	# RT-23	Duplic	ation o	f "fiber base	ed", and missing a hyphen		
A channel index corresponds to a single (center) frequency uggestedRemedy Change from: "The channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequency." roposed Response Response Status W PROPOSED ACCEPT. 45 SC 45.2.1.1.133e.2 P37 L39 # R1-24 uber, Thomas Nokia comment Type E Comment Status D A channel index corresponds to a single (center) frequency uggestedRemedy Change from: "The channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequencies" Change from: "The channel index number indicates the corresponding optical frequencies" Change from: "The channel index number indicates the corresponding optical frequencies" Change from: "The channel index number indicates the corresponding optical frequencies" Change from: "The channel index number indicates the corresponding optical frequencies" Change from: "The channel index number indicates the corresponding optical frequencies" Change from: "The channel index number indicates the corresponding optical frequencies" Change from: "The channel index number indicates the corresponding optical frequencies" Change from: "The channel index number indicates the corresponding optical frequencies" Change from: "The channel index number indicates the corresponding optical frequencies" Change from: "The channel index number indicates the corresponding optical frequencies" Change from: "The channel index number indicates the corresponding optical frequencies" Change from: "The channel index number indicates the corresponding optical frequencies" Change from: "The chann	,					Suggested	dRemed	dy			
uggestedRemedy Change from: "The channel index number indicates the corresponding optical frequencies" to: "The channel index number indicates the corresponding optical frequencies" roposed Response Response Status W PROPOSED ACCEPT. C/ 154 SC 154.6 P111 L17 # R1-27 Uber, Thomas Nokia Nokia Comment Type E Comment Status D But A channel index corresponds to a single (center) frequency gestedRemedy Change from: "also referred to as a DWDM channel which is defined" to::" .also referred to as a DWDM channel, which is defined" to::" .also referred to as a DWDM channel, which is defined"		• •									
Juggesteurce/ready Change from: "The channel index number indicates the corresponding optical frequencies" Change from: "The channel index number indicates the corresponding optical frequencies" Change from: "The channel index number indicates the corresponding optical frequencies" PROPOSED ACCEPT. Image: the correspondence optical frequency." PROPOSED ACCEPT. Image: the correspondence optical frequency." Image: the correspondence optical frequency." PROPOSED ACCEPT. Image: the correspondence optical frequency." Image: the correspondence optical frequency." Image: the correspondence optical frequency." PROPOSED ACCEPT. Image: the correspondence optical frequency. Image: the correspondence optical frequencies." Image: the correspondence optical frequen	A chai	nnel index corresp	onds to a single (center)	frequency						-mode fiber-ba	sed dense wavelength
Initial index number indicates the corresponding optical frequency." roposed Response Response Status W PROPOSED ACCEPT. I 45 SC 45.2.1.1.133e.2 P37 L 39 I 40 Sc 154.6 P111 L 17 I 40 Comment Type E Comment Status D A channel index corresponds to a single (center) frequency Change from: "The channel index number indicates the corresponding optical frequencies" Proposed Response Response Status W	00								,		
PROPOSED ACCEPT. C/ 154 SC 154.6 P111 L17 # R1-27 45 SC 45.2.1.1.133e.2 P37 L39 # R1-24 Nokia Nokia uber, Thomas Nokia Nokia Missing a comman SuggestedRemedy Change from: "also referred to as a DWDM channel which is defined" to::" .also referred to as a DWDM channel, which is defined" But the second seco						•	•		Response Status W		
Huber, Thomas Nokia Image: Comment Type E Comment Status D A channel index corresponds to a single (center) frequency SuggestedRemedy SuggestedRemedy Change from: "The channel index number indicates the corresponding optical frequencies" Huber, Thomas Nokia Proposed Response Response <td< td=""><td>•</td><td>•</td><td>Response Status W</td><td></td><td></td><td>C/ 154</td><td>SC</td><td>154.6</td><td>P111</td><td>L17</td><td># R1-27</td></td<>	•	•	Response Status W			C/ 154	SC	154.6	P111	L 17	# R1-27
45 SC 45.2.1.1.133e.2 P37 L39 # R1-24 Comment Type E Comment Status D Missing a comma uber, Thomas Nokia Missing a comma Missing a comma Missing a comma Missing a comma But comment Type E Comment Status D SuggestedRemedy Change from: "also referred to as a DWDM channel which is defined" to::" .also referred to as a DWDM channel, which is defined" to::" .also referred to as a DWDM channel, which is defined" But Change from: "The channel index number indicates the corresponding optical frequencies" Proposed Response Response Status W	PROP	OSED ACCEPT.				Huber The	omas		Nokia		
uber, Thomas Nokia Missing a comma comment Type E Comment Status D A channel index corresponds to a single (center) frequency SuggestedRemedy uggestedRemedy Change from: "also referred to as a DWDM channel which is defined" to::" .also referred to as a DWDM channel, which is defined" to::" .also Change from: "The channel index number indicates the corresponding optical frequencies" Proposed Response Response Status W	C/ 45	SC 45.2.1.1.1	33e.2 P37	L 39	# R1-24			F			Bucke
omment Type E Comment Status D SuggestedRemedy A channel index corresponds to a single (center) frequency Change from: "also referred to as a DWDM channel which is defined" to::" .also referred to as a DWDM channel, which is defined" to::" .also referred to as a DWDM channel, which is defined" to::" .also UggestedRemedy Proposed Response Response Status W	luber The	omas	Nokia								Buoko
A channel index corresponds to a single (center) frequency <i>uggestedRemedy</i> Change from: "also referred to as a DWDM channel which is defined" to::" .also <i>referred to as a DWDM channel, which is defined"</i> <i>Proposed Response</i> <i>Response Status</i> <i>W</i>	,						•				
UggestedRemedy Change from: "The channel index number indicates the corresponding optical frequencies" Proposed Response Response Status		<i></i>		frequency		••		•	erred to as a DW/DM chann	al which is defir	ned "to::" also
Change from: "The channel index number indicates the corresponding optical frequencies" Proposed Response Response Status W											ieu 10aiso
	00		anal index number indicat	as the correspondi	na ontical fraguancias"	Proposed	Respor	nse	Response Status W		
						,	,				
roposed Response Response Status W					. ,						
PROPOSED ACCEPT.	,										

/ 154	SC 154.6	P 111	L 22	# <u>R</u> 1-28	C/ 154	SC 154.6	P	112	L 28	# <u>R</u> 1-30
uber, Tho	mas	Nokia			Huber, Th	iomas	Noki	ia		
comment T	Гуре Т	Comment Status D			Comment	Type TR	Comment Status	s D		
Second	l paragraph would re	ead better if the first sente	ence was split in	to two.						bset of what G.694.1
Suggested	Remedy									han 48 channels, and sthe channel spacing
Change						ne infrastructure				s the channel spacing
		n DWDM technology is us r, a black link specificatio			Suggested	dRemedy				
specific	ation of the (single	channel) DWDM			Repla	ice: This grid co	rresponds to the DWI			
		ffects of other DWDM ch		eously present on the		mmendation ITL num of 48	J-T G.694.1. The 100	GBASE-Z	IR PMD specific	ation covers a
muiti-c	nannel part of the lir	nk, have been taken into a	account.				DM system, supportin	g betweer	n 1 and 48 chani	nels, with a channel
to:						ng of at least		-		
"In this	application DWDM	l technology is used to en	able the transpo	rt of multiple DWDM	100 G With:					
channe	ls over a single fibe	r. A black link specificatio	on methodology i	s used to allow						100 GHz spacing that
		DWDM channel in a way t may be simultaneously				ined by Recomr en 1 and 48 ch	nendation ITU-T G.69	94.1. The	DWDM infrastru	cture may support
link."			present on the m			Response	Response Status	w		
					11000000	11000001100				
	Response F	Response Status W			PROF	POSED REJEC	•			
Proposed F	Response F	Response Status W				POSED REJEC	Т.			
Proposed F PROP	DSED ACCEPT.				The p	roposed text is	T. not an improvement t	o the qua	lity of the draft a	nd actually removes
Proposed F PROP 7 154	SC 154.6	Р111	L27	# <mark>R1-29</mark>	The p some	roposed text is	T. not an improvement t nation about what the	o the qua	lity of the draft a tion in Clause 15	nd actually removes 54 enables on maximim
Proposed F PROP 7 7 154 Juber, Tho	SC 154.6	P 111 Nokia	L 27	# <mark>R1-29</mark>	The p some amou	roposed text is essential inform nt of channels s	T. not an improvement t nation about what the supported.	o the qua specifica	tion in Clause 18	54 enables on maximim
roposed F PROP 7 154 uber, Tho	DSED ACCEPT. SC 154.6 mas Type TR	P111 Nokia Comment Status D			The p some amound <i>Cl</i> 154	oroposed text is essential inform nt of channels s SC 154.1	T. not an improvement t nation about what the supported. P	o the qua specifica 105	tion in Clause 15	54 enables on maximim # <u>R</u> 1-31
Proposed F PROP(1 154 uber, Tho comment T Third a	DSED ACCEPT. SC 154.6 mas Type TR of nd fourth paragraph	P 111 Nokia			The p some amoun <i>CI</i> 154 Schmitt, M	oroposed text is essential inform nt of channels s SC 154.1 <i>N</i> atthew	T. not an improvement t nation about what the supported. <i>P</i> Cabl	to the qua specifica 105 le Televisi	tion in Clause 15	54 enables on maximim # <u>R1-31</u> Inc. (CableLabs)
roposed F PROP(7 154 uber, Tho comment T Third a uggested	DSED ACCEPT. SC 154.6 mas Type TR nd fourth paragraph Remedy	P111 Nokia Comment Status D s would read better if the	y were combined	and reorganized.	The p some amoun <i>Cl</i> 154 Schmitt, N <i>Comment</i>	oroposed text is essential inform nt of channels s SC 154.1 <i>N</i> atthew <i>Type</i> E	T. not an improvement t nation about what the supported. <i>P</i> Cabl <i>Comment Status</i>	to the qua specifica 105 le Televisi s D	tion in Clause 15 <i>L</i> 8 ion Laboratories	54 enables on maximim # <u>R1-31</u> Inc. (CableLabs) <i>Bucke</i>
roposed F PROPO 1 154 uber, Tho omment T Third a uggested Replac channe	DSED ACCEPT. SC 154.6 mas Type TR nd fourth paragraph Remedy e the paragraphs wi specified using the	P111 Nokia Comment Status D Is would read better if the th this text: Figure 154-3 e black link methodology a	y were combined shows a generic and identifies the	d and reorganized. example of a DWDM e location of the single	The p some amoun <i>Cl</i> 154 Schmitt, M <i>Comment</i> The p to a co	oroposed text is essential inform nt of channels s SC 154.1 Matthew <i>Type</i> E hrase "fiber bas opy/paste error:	T. not an improvement t nation about what the supported. P Cabl Comment Status	o the qua specifica 105 le Televisi s D e first sent	tion in Clause 15 <i>L</i> 8 ion Laboratories sence of the subo	54 enables on maximim # <u>R1-31</u> Inc. (CableLabs) <i>Bucke</i> clause, most likely due
Proposed F PROPO 154 Iuber, Tho Comment T Third a Suggested Replac channe channe	DSED ACCEPT. SC 154.6 mas Type TR of not fourth paragraph Remedy e the paragraphs wi specified using the linterfaces at TP2 a	P111 Nokia Comment Status D is would read better if the th this text: Figure 154-3 e black link methodology a and TP3. The DWDM ch	y were combined shows a generic and identifies the nannel includes v	d and reorganized. e example of a DWDM e location of the single wavelength division	The p some amoun <i>Cl</i> 154 Schmitt, M <i>Comment</i> The p to a cc (DWD	roposed text is essential inform nt of channels s SC 154.1 Matthew <i>Type</i> E hrase "fiber bas opy/paste error: DM) channel"	T. not an improvement t nation about what the supported. <i>P</i> Cabl <i>Comment Status</i> sed" is repeated in the	o the qua specifica 105 le Televisi s D e first sent	tion in Clause 15 <i>L</i> 8 ion Laboratories sence of the subo	54 enables on maximim # <u>R1-31</u> Inc. (CableLabs) <i>Bucke</i> clause, most likely due
roposed F PROPO / 154 uber, Tho omment T Third a uggested. Replac channe channe multiple	DSED ACCEPT. SC 154.6 mas Type TR of nd fourth paragraph Remedy e the paragraphs wi specified using the specified using the interfaces at TP2 a exing and demultiple	<i>P</i> 111 Nokia <i>Comment Status</i> D is would read better if the th this text: Figure 154-3 e black link methodology a and TP3. The DWDM ch exing supporting simultan	y were combined shows a generic and identifies the nannel includes v eous transport o	d and reorganized. e example of a DWDM e location of the single wavelength division f a maximum of n	The p some amoun <i>Cl</i> 154 Schmitt, M <i>Comment</i> The p to a ca (DWD <i>Suggested</i>	Aroposed text is essential inform nt of channels of SC 154.1 Matthew Type E hrase "fiber bas opy/paste error: DM) channel" dRemedy	T. not an improvement t nation about what the supported. <i>P</i> Cabl <i>Comment Status</i> red" is repeated in the "fiber based fiber ba	to the qua specifica 105 le Televisi s D e first sent ased dens	L8 L8 tion Laboratories tence of the sub- e wavelength div	54 enables on maximim # <u>R1-31</u> Inc. (CableLabs) <i>Bucke</i> clause, most likely due
Proposed F PROPO 7 154 Juber, Tho Comment T Third a Suggested Replac channe channe multiple DWDM shadeo	SED ACCEPT. SC 154.6 mas Type TR of nd fourth paragraph Remedy e the paragraphs wi el specified using the el interfaces at TP2 a exing and demultiple ichannels on a sing box in Figure 154-3	P111 Nokia Comment Status D s would read better if the th this text: Figure 154-3 e black link methodology a and TP3. The DWDM ch exing supporting simultan- le fiber, and may also inc 3 is used to indicate that t	y were combined shows a generic and identifies the nannel includes v eous transport of clude optical amp the implementatio	and reorganized. e example of a DWDM e location of the single wavelength division f a maximum of n blification. The grey- on details of the	The p some amoun <i>Cl</i> 154 Schmitt, M <i>Comment</i> The p to a cr (DWD <i>Suggested</i> Delete	roposed text is essential inform nt of channels of SC 154.1 Matthew Type E hrase "fiber bas opy/paste error: DM) channel" dRemedy e one instance of	T. not an improvement t nation about what the supported. <i>P</i> Cabl <i>Comment Status</i> sed" is repeated in the "fiber based fiber ba	to the qual specifica 105 le Televisi s D e first sent ased dens t sentence	L8 L8 tion Laboratories tence of the sub- e wavelength div	54 enables on maximim # <u>R1-31</u> Inc. (CableLabs) <i>Bucke</i> clause, most likely due
Proposed F PROPO 7 154 Juber, Tho Comment T Third a Suggested Replac channe channe multiple DWDM shadeo DWDM	DSED ACCEPT. SC 154.6 mas <i>Type</i> TR Ind fourth paragraph Remedy the paragraphs with the paragraphs with	P111 Nokia Comment Status D is would read better if the th this text: Figure 154-3 e black link methodology a and TP3. The DWDM ch exing supporting simultan- le fiber, and may also inc 3 is used to indicate that t e the scope of this clause	y were combined shows a generic and identifies the nannel includes v eous transport of clude optical amp the implementatio . The arrangement	and reorganized. e example of a DWDM e location of the single wavelength division f a maximum of n blification. The grey- on details of the ent of (DWDM)	The p some amoun <i>Cl</i> 154 Schmitt, M <i>Comment</i> The p to a cc (DWD <i>Suggested</i> Delete <i>Proposed</i>	Aroposed text is essential inform nt of channels s SC 154.1 Matthew Type E hrase "fiber bas opy/paste error: DM) channel" dRemedy e one instance of Response	T. not an improvement t nation about what the supported. <i>P</i> Cabl <i>Comment Status</i> sed" is repeated in the "fiber based fiber ba of "fiber based" in that <i>Response Status</i>	to the qual specifica 105 le Televisi s D e first sent ased dens t sentence	L8 L8 tion Laboratories tence of the sub- e wavelength div	54 enables on maximim # <u>R1-31</u> Inc. (CableLabs) <i>Bucke</i> clause, most likely due
Proposed F PROPO 7 154 luber, Tho Comment T Third a Suggested Replac channe channe channe multiple DWDM shadeo DWDM elemer	DSED ACCEPT. SC 154.6 mas Type TR nd fourth paragraph Remedy e the paragraphs wi l specified using the l interfaces at TP2 a exing and demultiple channels on a sing l box in Figure 154-5 channel are outsiduts within the figure i	P111 Nokia Comment Status D s would read better if the th this text: Figure 154-3 e black link methodology a and TP3. The DWDM ch exing supporting simultan- le fiber, and may also inc 3 is used to indicate that t e the scope of this clause s not intended to place co	y were combined shows a generic and identifies the nannel includes v eous transport of clude optical amp the implementatio . The arrangement	and reorganized. e example of a DWDM e location of the single wavelength division f a maximum of n blification. The grey- on details of the ent of (DWDM)	The p some amoun <i>Cl</i> 154 Schmitt, M <i>Comment</i> The p to a cc (DWD <i>Suggested</i> Delete <i>Proposed</i>	Aroposed text is essential inform nt of channels s SC 154.1 Matthew Type E hrase "fiber bas opy/paste error: DM) channel" dRemedy e one instance of Response	T. not an improvement t nation about what the supported. <i>P</i> Cabl <i>Comment Status</i> sed" is repeated in the "fiber based fiber ba	to the qual specifica 105 le Televisi s D e first sent ased dens t sentence	L8 L8 tion Laboratories tence of the sub- e wavelength div	54 enables on maximim # <u>R1-31</u> Inc. (CableLabs) <i>Bucke</i> clause, most likely due
Proposed F PROPO International PROPO International Proposed F Proposed F	DSED ACCEPT. SC 154.6 mas Type TR nd fourth paragraph Remedy e the paragraphs wi l specified using the l interfaces at TP2 a exing and demultiple channels on a sing l box in Figure 154-5 channel are outsiduts within the figure i	P111 Nokia Comment Status D s would read better if they th this text: Figure 154-3 e black link methodology a and TP3. The DWDM ch exing supporting simultan- le fiber, and may also inc 3 is used to indicate that t e the scope of this clause s not intended to place co Response Status W	y were combined shows a generic and identifies the nannel includes v eous transport of clude optical amp the implementatio . The arrangement	and reorganized. e example of a DWDM e location of the single wavelength division f a maximum of n blification. The grey- on details of the ent of (DWDM)	The p some amoun <i>Cl</i> 154 Schmitt, M <i>Comment</i> The p to a cr (DWD <i>Suggested</i> Delete <i>Proposed</i> PROF	Aroposed text is essential inform nt of channels s SC 154.1 Matthew Type E hrase "fiber bas opy/paste error: DM) channel" dRemedy e one instance of Response	T. not an improvement t nation about what the supported. <i>P</i> Cabl <i>Comment Status</i> sed" is repeated in the "fiber based fiber ba of "fiber based" in that <i>Response Status</i> T IN PRINCIPLE.	to the qual specifica 105 le Televisi s D e first sent ased dens t sentence	L8 L8 tion Laboratories tence of the sub- e wavelength div	54 enables on maximim # <u>R1-31</u> Inc. (CableLabs) <i>Bucke</i> clause, most likely due
Proposed F PROPO I 154 uber, Tho comment T Third a cuggested Replac channe channe channe DWDM shadeo DWDM elemer Proposed F PROPO	DSED ACCEPT. SC 154.6 mas Type TR of nd fourth paragraph Remedy e the paragraphs wi l specified using the l interfaces at TP2 a exing and demultiple channels on a sing l box in Figure 154-5 channel are outside the second are outside	P111 Nokia Comment Status D s would read better if the th this text: Figure 154-3 e black link methodology a and TP3. The DWDM ch exing supporting simultan- le fiber, and may also inc 3 is used to indicate that t e the scope of this clause s not intended to place co Response Status W PRINCIPLE.	y were combined shows a generic and identifies the nannel includes v eous transport of clude optical amp the implementation The arrangement onstraints on the	and reorganized. e example of a DWDM e location of the single wavelength division f a maximum of n olification. The grey- on details of the ent of (DWDM) construction of the link.	The p some amoun <i>Cl</i> 154 Schmitt, M <i>Comment</i> The p to a cu (DWD <i>Suggested</i> Delete <i>Proposed</i> PROF See re	roposed text is essential inform nt of channels s SC 154.1 Matthew Type E whrase "fiber bas opy/paste error: DM) channel" dRemedy e one instance of Response POSED ACCEP esponse to com	T. not an improvement t nation about what the supported. <i>P</i> Cabl <i>Comment Status</i> ed" is repeated in the "fiber based fiber ba of "fiber based" in that <i>Response Status</i> T IN PRINCIPLE.	to the qual specifica 105 le Televisi s D e first sent ased dens t sentence	L8 L8 tion Laboratories tence of the sub- e wavelength div	54 enables on maximim # <u>R1-31</u> Inc. (CableLabs) <i>Bucke</i> clause, most likely due
Proposed F PROPO I 154 uber, Tho comment T Third a cuggested Replac channe channe channe channe DWDN shaded DWDN elemer Proposed F PROPO	DSED ACCEPT. SC 154.6 mas Type TR of nd fourth paragraph Remedy e the paragraphs wi l specified using the l interfaces at TP2 a exing and demultiple channels on a sing l box in Figure 154-5 channel are outside the second are outside	P111 Nokia Comment Status D s would read better if they th this text: Figure 154-3 e black link methodology a and TP3. The DWDM ch exing supporting simultan- le fiber, and may also inc 3 is used to indicate that t e the scope of this clause s not intended to place co Response Status W	y were combined shows a generic and identifies the nannel includes v eous transport of clude optical amp the implementation The arrangement onstraints on the	and reorganized. e example of a DWDM e location of the single wavelength division f a maximum of n olification. The grey- on details of the ent of (DWDM) construction of the link.	The p some amoun <i>Cl</i> 154 Schmitt, M <i>Comment</i> The p to a ca (DWD <i>Suggestee</i> Delete <i>Proposed</i> PROF See re The re	roposed text is essential inform nt of channels s SC 154.1 Matthew Type E whrase "fiber bas opy/paste error: DM) channel" dRemedy e one instance of Response POSED ACCEP esponse to com	T. not an improvement t aution about what the supported. <i>P</i> Cabl <i>Comment Status</i> red" is repeated in the "fiber based fiber ba of "fiber based" in that <i>Response Status</i> T IN PRINCIPLE. ment R1-26. ment R1-26 was:	to the qual specifica 105 le Televisi s D e first sent ased dens t sentence	L8 L8 tion Laboratories tence of the sub- e wavelength div	54 enables on maximim # <u>R1-31</u> Inc. (CableLabs) <i>Bucke</i> clause, most likely due

C/ 154 SC 154.8	P115	L 49	# R1-32	C/ 154A	SC 154A.3	P133	L 29	# R1-33
and "Optical path penalty value in other words th it seems like these two p and table entry. SuggestedRemedy Modify "Optical path OSI	Comment Status D path OSNR penalty (max), for y (max), for OSNR at TP3 >= ie, the OSNR penalty is the parameters could be consolid NR penalty (max), for OSNR alty (max)", and delete the ta	or OSNR at TP3 = 35dB (12.5 GF same regardless dated together in ated together of at TP3 < 35 dB	Iz)" have the same s of the OSNR level nto a single parameter (12.5 GHz)" to be	Table 1 from a v loss of excessi distribu exampl underes The sar should	ype T ues chosen for 54A-2 all seen variety of manu 5 dB for a 40 c two compared t tion frame (pate e with suitable stimates what i me patch pane be updated to	Cable Televis <i>Comment Status</i> D In the optical multiplexer, optical in excessive. In an activity at 0 ufacturers from this product sp channel mux or demux was a significant on modern equipment. Similar is modern equipment. Similar is product sp channel was more than suffi- disclaimers, the resulting exa- is most likely commonly possi- I values are also used in Table remain consistent, while the norm they may also be high).	al demultiplexer, CableLabs invol- bace, for exampl safe value to use ly, a value of 1 of cient. As a resu- mple distance re ble. es 154A-3, 154A	ving representatives le it was agreed that a e, and was probably dB for an optical ult, while admittedly an each significantly
	lifference between "Optical p ptical path OSNR penalty", v			SuggestedF Modify to 5 dB calculat Also mo 4, and Proposed F PROPC Add a r	Remedy the multiplexer , and modify the tions as approp odify the patch 154A-5. Response DSED ACCEP note to the sect	ion to address this point in the and demultiplexer allocation I te patch panel loss from 2 dB priate. panel loss figure from 2 dB to <i>Response Status</i> W Γ IN PRINCIPLE. tion that the example values s otential distances. With editor	loss figures in T to 1 dB and upd o 1 dB for each o hown are conse	late the resulting of Tables 154A-3, 154A-

C/ 154A	SC 154A.3	P133	L 29	# R1-34	C/ 154A	SC 154A	.3	P133	L 6	# <u>R</u> 1-35	
Schmitt, Ma	atthew	Cable Televis	ion Laboratories	Inc. (CableLabs)	Schmitt, Ma	atthew		Cable Telev	ision Laboratories	s Inc. (CableLabs)	
Comment T	Type E	Comment Status D			Comment	Туре Е	C	Comment Status D			
implies key difl I would	that each table ference betwee suggest modif	I:1 optical multiplexer" in Table e/calculation is using the exact n each table is the use of a dif ying those entries to match wh	same optical m ferent optical m	ultiplexer, whereas the ultiplexer.	receive optical path pe the cor	er sensitivity impairment enalty, resul rect figure t	without in s that the ting in the o use in t	these examples are all mpairments is 30 dBm system is required to e quoted "Average Rec he calculations, but the	, but in the present tolerate there is a reive Power" of 27 are could be value	nce of the worst case maximum 3dB optica 7 dB. That is probably in making it clear to	al y
specific							it is an e	xample that this is a	worst case scena	ario, so to speak.	
Suggested					Suggested						
		ige "Allocation for loss of 4:1 c optical multiplexer".	ptical multiplexe	er" to read "Allocation	Modify	the followin	g senteno	ces:			
In Tabl for loss In Tabl	le 154A-2, chan s of 40 channel le 154A-3, chan	ge "Allocation for loss of 4:1 c optical demultiplexer". ge "Allocation for loss of 4:1 c optical multiplexer".			and de of optic connec differer	multiplexer cal multiplex ctors. The m nce betweer	will be de er and de aximum a the mini	across the multi-channe termined by the total lo emultiplexer, and the lo allowable loss over the mum average receive I output power (at TP2)	oss from TP2 to T ss of potentially p black link can be power (at TP3) ar	P3, less the total loss present patch panel e calculated from the nd the minimum	
		ge "Allocation for loss of 4:1 c	ptical demultiple	exer" to read "Allocation	To read	d as follows					
In Tabl for loss In Tabl	le 154A-4, chan s of 4 channel o le 154A-4, chan	ge "Allocation for loss of 4:1 c ptical multiplexer". ge "Allocation for loss of 4:1 c ptical demultiplexer".			and de of optic connec over th	multiplexer cal multiplex ctors, and th e black link	will be de er and de e optical can there	across the multi-channe termined by the total lo emultiplexer, the loss o path penalty due to im ofore be calculated fror 'P3) and the minimum	oss from TP2 to T f potentially prese pairments. The m n the difference b	P3, less the total loss ent patch panel naximum allowable los retween the minimum	ss
L. T - 1.1		· · · · · · · · · · · · · · · · · · ·		Ale al model al according to a set	power	(at TP2), wh	ich is 19	dB."			
	tion for loss of	ove the entries for "Allocation f 4:1 optical demultiplexer" to re		•	Proposed F PROP	Response OSED ACC		esponse Status W RINCIPLE.			
Proposed F PROP	•	Response Status W IN PRINCIPLE.			Implem	nent remedy	with edit	orial license.			

Implement remedy with editorial license.

Comment ID R1-35

C/ 154A	SC 154A.3	P 133	L 35	# R1-36	C/ 154	SC 154.6	P 111	L 27	# <u>R</u> 1-37
Schmitt, Ma	atthew	Cable Televis	ion Laboratories	Inc. (CableLabs)	Maki, Jeffe	ery	Juniper Netw	vorks, Inc.	
Comment 7	Гуре Е	Comment Status D			Comment	Type TR	Comment Status D		
a fiber dB/km. dB/km. While t appare section Suggested Severa	attenuation figure However, in su his isn't technica nt disconnect or s more aligned. <i>Remedy</i> I options are pos ifying the text in	A-3, 154A-4, and 154A-5, the e of 0.275 dB/km, and one for bclause 154A.2, the text ma ally wrong per se since the lack of consistency in the te essible, including (but not limit 154A.2 to refer to the same	or a fiber attenua kes reference to y are all called o xt. It may be de red to):	ition figure of 0.21 using a figure of 0.25 ut this creates an sirable to keep these	operat draft d DWDM fiber o 154-3 not ge cases fiber," depict	tion on a single lefines DWDM s M links optically or a single optical shows a generi neric with respe- . It depicts the c which would co ed. Accommoda different to supp	s include, "Provide a physical wavelength capable of at lea system. See "Clause 1.4.237 multiplexed and demultiplexed al fiber per direction." The tex c example of a black link." Ho ext to the definition of DWDM case of "single optical fiber per rrespond to bi-direction propa ation is made in the draft for the port bi-directional propagation	st 80 km over a E d DWDM system ed onto and off ei t on line 27 of pa owever, upon insi system. It depict er direction." The agation over a sir the Tx and Rx wa	WDM system." The : An aggregate of ther a single optical ge 111 says, "Figure bection, the example is s only one of the two case of "single optical igle fiber, is not velengths of the PMD
2. Mod one of	ifying the 0.275 o the values being	dB/km value to 0.25 dB/km in used aligns with the text in in 154A.3 to all use a single	154A.2; or		for bot	th directions in a	to include the case of a DWI addition to the single optical f describing Fig. 154-3 to cov	iber per direction	a "single optical fiber" that is already
Proposed F	Response DSED ACCEPT	Response Status W			,	Response	Response Status W		
		A.3 to refer to 0.25 dB/km fi	her loss With er	litorial license		esponse to com			
mouny						esponse to com			
					PROP	OSED ACCEP	T IN PRINCIPLE.		
					Impler	ment remedy wi	th editorial license.		
					C/ 154	SC 154.1	P 114	L 8	# R1-38
					Ran, Adee <i>Comment</i> "fiber		Intel Corpora Comment Status D d twice	ation	Buck
					Suggested	Remedy	ber based" to "fiber based"		
					Proposed PROP	•	Response Status W T IN PRINCIPLE.		
					See re	esponse to com	ment R1-26.		
					The re	esponse to com	ment R1-26 was:		
					PROP	OSED ACCEP	Т.		
							-		B (6.55)

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 154	SC 154.5.4	P119	L 34	# R1-39	C/ 154	SC 154.6	P 121	L 7	# <u>R</u> 1-40
Ran, Adee		Intel Corporati	on		Ran, Adee		Intel Corporat	ion	
Comment "Fixing layers acquire This se signal reason upper l acquire The ch	the value of SIC to determine wh e frame alignmen entence does no is being received that SIGNAL_D layer) is required e frame alignmen ange of this sub	Comment Status A SNAL_DETECT from the PMI ether a valid signal is being re- nt." It make sense. The upper laye "regardless of the value of S ETECT is fixed to OK. In fact to make this determination, a nt" is not a mere example. clause from the previous draf	D sublayer at OK eceived, e.g., act ers can "determin GONAL_DETEC , in this PHY the as specified in 19 t requires a clea	cording to the ability to ne whether a valid T; this is not the SC-FEC (a specific 53.2.1 - so "ability to r statement that the	Comment (Subcl "Beca chann specifi DWDM taken This is parent	Type E uase number is use in this appl els over a singl cation of the (s A channels, sin into account."	Comment Status D s from the clean document - it a ication DWDM technology is us e fiber, a black link specificatio ingle channel) DWDM channel nultaneously present on the mu-	appears as 154 sed to transport on methodology l in a way that t ulti-channel part relative clauses	multiple DWDM is used to allow ne effects of other of the link, have been , commas, and
Suggested Chang "The p Response ACCEI	Remedy e the quoted ser resence of a vali PT IN PRINCIPL	id signal is determined only by Response Status C	,		"In this fiber. ⁻ DWDM specifi <i>Proposed</i>	e this sentence s application, D To specify a sir A channels sim cation methode Response	WDM technology is used to tra gle DWDM channel in a way th ultaneously present on the mu	hat the account	s for effects of other
					The re	sponse to com sponse to com OSED ACCEP	ment R1-28 was:		

C/ 154	SC 154.6	P 122	L35	# <u>R</u> 1-41	C/ 154	SC 154.7.1	P124	L24	# <u>R</u> 1-42
Ran, Adee		Intel Corporat	ion		Ran, Adee		Intel Corp	oration	
Comment 1	Гуре Т	Comment Status D			Comment 7	Уре т	Comment Status D		
(Subclu	lase number i	s from the clean document - it a	appears as 154.7	in the diff document)	(Subclu	ase number i	is from the clean document	- it appears as 154	.8.1 in the diff document)
	l system, supp	PMD specification covers a porting between 1 and 48 chann			shouldr	n't it be the tra	teristics in Table 154-7 inclu ansmitter power (at TP2)? T DWDM channel (to which th	he term "channel ou	utput" intuitively reads
system "In a w	. I assume this orking DWDM	as if a 100GBASE-ZR link can s is not the intent. link, the combination of a 1000 BASE-ZR Rx are configured to	GBASE-ZR Tx, tl	ne associated DWDM	which is measur (as doe	s in 53.9.2 "O ements shall	verage channel output pow ptical power measurements be made through a short p to this measurement is at T ent.	s", and 53.9 states t atch cable, betweer	hat "All optical 2 m and 5 m in length."
frequer		5			Suggested	Remedv			
	ould probably ot just suppor	read 100GBASE-ZR link, and	the same center	frequency should be	00		tput power" to "output powe	r", both in Table 15	4-7 and in 154.9.3.
,	,	leu.			If there	is a good rea	ison to keep the word "char	nel", state explicitly	in the table "at TP2".
Suggested	e the quoted s	ontoncos to			Proposed F	Response	Response Status W		
Change	e ille quoted s				PROPO	SED REJEC	CT.		
a DWD ZR link	M system, wh , the 100GBA	PMD can use one of 48 chann ere the channel spacing is at le SE-ZR Tx, the associated DWI have the same channel center	east 100 GHz. In DM channel, and	a working 100GBASE-	IEEE P	802.3ct/D3.0	not apply to the substantive or the unsatisfied negative the scope of the recirculati	comments from the	
Proposed F PROP(Response Status W			ITU-T C	6.698.2 and tl	e "channel output power" is here is no technical need to of the inherent connection t	make a change. Th	ne reference to channel
IEEE P Hence Howev	802.3ct/D3.0 it is not within	not apply to the substantive cha or the unsatisfied negative com the scope of the recirculation t s suggested are an improvement Maintenance.	ments from the ballot.	previous ballots.			ers are specified at TP2 by		
Sectior	discussion. n will need son ditorial license	ne rewording to clarify intents.							

C/ 154	SC	154.7	P 123	L 48	# <u>R</u> 1-43	C/ 154	SC	154.1	P115	L16	# R1-45
Ran, Ade	e		Intel Corporati	on		D'Ambrosi	a, John	1	Futurewei 7	Fechnologies, U.S.	Subsidiary of Huawei
Commen	t Type	т	Comment Status D			Comment	Туре	TR	Comment Status A		
"The	operatin	g range f	from the clean document - it a or the 100GBASE-ZR PMD is	defined in Table	e 154-7. A 100GBASE-	Etherr		k is incorr	e line between the bottom rectt. The bottom of the ph		
ZR co 12."	ompliant	PMD ope	erates over a black link mee	eting the speci	fications in Table 154-	Suggestee	Remed	ly			
	it make	sense to	define the operating range of	the PMD when	the black link		w Fig 1 m bord		re the line at the bottom of	the physical layer	lines up with the MDI /
meth	odology	is used?	a black link can work over ran	ges larger than	80 km too.	Response			Response Status C		
maxii mear <i>Suggeste</i> If the	mum trai ns). ed <i>Remec</i> text and	nsmit pov dy I table in 1	Table 154-7 does not make s ver of 0 dBm (assuming this is the body of this subclause is k a detailed remedy).	what "Average	channel output power"	This c IEEE Hence Howe	ommen 2802.30 e it is no /er, the	ct/D3.0 or ot within th changes	E. t apply to the substantive of the unsatisfied negative c le scope of the recirculatio suggested are an improve intenance.	omments from the n ballot.	previous ballots.
Proposed	l Respor	0	ext and table (keeping only th <i>Response Status</i> W	e subclause hie	rarchy below 154.7).	Implei	nent re	medy with	n editorial license.		
IEEE	P802.30	ct/D3.0 or	ot apply to the substantive cha the unsatisfied negative com ne scope of the recirculation b	ments from the							
			f the PMD is necessary to esta /DM black link in 154.8.	ablish appropria	te limits for the						

C/ 154	SC 154.	,	P 120	L 39	# <u>R</u> 1-46	C/ 1	SC 1.4.237	а	P 26	L 31	# <u>R</u> 1-47
D'Ambros	ia, John		Futurewei Teo	chnologies, U.S.	Subsidiary of Huawei	D'Ambros	sia, John		Futurewei Te	chnologies, U.S.	Subsidiary of Huawei
Comment	Type TR	C	Comment Status D			Commen	t Type E	Comn	ment Status D		
			use has essentially mod			Defin	ition of DWDM	Channel ca	n be improved.		
for the	e PHY, which	disagree	es with the defintion 1.4.2	237a DWDM cha	annel.	Suggeste	dRemedy				
referre	ed to as a DV	VDM cha	nedium associated with t nnel which is defined as	the transmissio	n path on a single		ransmission pa ving (TP3).	h between	a DWDM PHY tran	smitting (TP2) to	another DWDM PHY
freque	ength/freque ency) on a de M PHY over	fined free	rred to either by channel quency grid between a D nk."	index number o WDM PHY tran	r channel center smitting to another		l Response POSED ACCEF		nse Status W CIPLE.		
Furthe	ermore, the h	eading of	f the subclause has now	been modified a	and indicates the new	For ta	ask force discus	sion.			
			Channel over a black link change the definition.	k. The medium	is the DWDM channel.	C/ 1	SC 1.4.237	b	P 26	L 34	# R1-48
Suggestee	dRemedy					D'Ambros	sia, John		Futurewei Te	chnologies, U.S.	Subsidiary of Huawei
	- Figure 154-1, PMD FOR D			CHANNEL OVE	R A BLACK LINK" to	Commen			ment Status D		
2. Cha	ange heading	of 154.7	' back to "The DWDM ch				e term DWDM L		ould not include the	e DWDM PHYS to	o align with ITU-T use
	dify noted se is also referre		comment to "The mediu	um associated w	ith the 100GBASE-ZR	Suaaeste	dRemedy				
chann (referr chann	nel which is d red to either l nel index num	efined as oy	the transmission path o	-		Chan DWD	ge definition of	gregate of D		er either a single	optical fiber or a single
	M PHY nitting to and	ther DWI	OM PHY.			This for al	effectively chan	ges the nan Black link	ning of the "gray bo	x" , ie everything	between TP2 and TP3
The p comm	rovided text i ient to addre	n #3 is ba ss refiner	ased on D3.1. Commen nent of defintion of DWD	ter will be subm M Channel, whi	itting additional ich may result in having	link u	sed to describe	everything	between TP2 and 1 d with term DWDM	TP3 (and not the	
to mo	dify #3 above) .				Proposed	l Response	Respo	nse Status W		
Proposed	Response	Re	esponse Status W			PRO	POSED ACCEF				
PROF	POSED ACC	EPT IN P	RINCIPLE.			F = = 4		-1			
For T	F discussion.					FOL	ask force discus	SION.			
Reme Reme	dy 1: Propos dy 2: change	ed AIP, o to "DWI	change to "DWDM chanr DM channel over DWDM	black link"							
referre	ed to as a D	VDM	medium associated with								
(referr freque	red to either	by channe	the transmission path o el index number or chan WDM PHY transmitting t	nel center freque	ency) on a defined						

C/ 1	SC 1.4.237d	P 26	L 40	# R1-49	C/ 154	SC 154.1	P 114	L 8	# R1-51
D'Ambros	sia, John	Futurewei Te	chnologies, U.S.	Subsidiary of Huawei	D'Ambrosia	a, John	Futurewei Te	chnologies, U.S.	. Subsidiary of Huawei
Comment	t Type TR	Comment Status D			Comment 7	Гуре Е	Comment Status D		Bucket
The p	proposed modificat	ion of DWDM Link will impa	ct the definition	of DWDM System.	Redune	dant wording - v	which is a single-mode fiber b	ased fiber based	d dense wavelength
Suggeste	dRemedy				Suggested	Remedy			
Delete	e definition if defini	ition of DWDM Link is modf	ied.		deleted	l second instan	ce of "fiber based"		
Proposed	l Response	Response Status W			Proposed F	Response	Response Status W		
PROF	POSED ACCEPT I	IN PRINCIPLE.			PROP	OSED ACCEPT	IN PRINCIPLE.		
For ta	ask force discussio	n.			See res	sponse to com	ment R1-26.		
C/ 1	SC 1.4.160a	P 26	L14	# <u>R</u> 1-50	The res	sponse to comr	nent R1-26 was:		
D'Ambros	sia, John	Futurewei Te	chnologies, U.S.	Subsidiary of Huawei	PROP	DSED ACCEPT	r		
Comment	t Type TR	Comment Status D							
metho transr	odology to describe mission path betwe	used to represent the aggrege the input, output, and trans een TP2 to TP3 for a given smission path is implemente	sfer characterist DWDM channel	ics of the uni-directional					
It is fe	elt that this will cau	se future readers confusion	I.						
Suggeste	dRemedy								
metho chara	odology, and char acteristics of the un	to Black Link Methodology t nge definition to - the specifi ni-directional transmission p a DWDM Link, without speci	cation of the inp ath between TP2	ut, output, and transfer to TP3 for a given					

implemented. (See, for example, IEEE Std 802.3, Clause 154, Figure 154–3)

Response Status W

Proposed Response

PROPOSED ACCEPT IN PRINCIPLE.

For task force discussion.

C/ 154 SC 154.7	P 122	L 37	# R1-52	C/ 154	SC 154-7	P121	L 7	# <u>R</u> 1-53
D'Ambrosia, John	Futurewei Te	chnologies, U.S.	Subsidiary of Huawei	D'Ambrosia	i, John	Futurew	ei Technologies, U	S. Subsidiary of Huawei.
Comment Type TR	Comment Status D			Comment 7	51	Comment Status)	
 A 100GBÅSE-ZR implementation could "configured" is proble need to select the PF channel. A user might inter 100GBASE-ZR Tx. SuggestedRemedy Suggested rewording and 100GBASE-ZR T 	ce has several problems PHY is required to support 1 to d support only a single waveler ematic for these types of PHY HY that supports the waveleng pret the 100GBASE-ZR Rx to I g - The channel center frequent receiving should be selected to /DM channel to which the two Response Status W PT IN PRINCIPLE	ngth. Therefore, i devices. In this in th that matches the be in the same Ph ncy of the 100GBA o support the sam	the use of the word Instance the user would The desired DWDM HY device as the INSE-ZR transmitting e channel center	Becaus channe While i Etherne these t Suggested Propos DWDM commu channe optical specific	els over a single t is true that mu et is full duplex - wo channels ma Remedy ed revision- l technology allo inication betwee el in each directi fiber or a single caiton	ation DWDM technology fiber tiple DWDM channels so a 100GBASE-ZR P ay exist on either one fit was the transport of mul on two 100GBASE-ZR F on of transmission. The fiber per direction. A b	may happen over a 'HY will utilize two I ber or two fibers. Itiple DWDM chann PHYs two channels ese two channels m lack link methodolo	single fiber - 100 Gb/s DWDM channels, and els over a single fiber. For will be required - one hay reside on a single bgy is used to allow
		referring in the co	mmont	Proposed F	0	Response Status V		noted in next comment
The referred subclau	h sentence the commenter is i se 154.7 is not correct as well	as the line numb				IN PRINCIPLE.	•	
	d" only occurs in subclause 15 e sentence in the remedy is or		12 in subclause 154.6.	For TF	discussion.			
IEEE P802.3ct/D3.0 Hence it is not within	not apply to the substantive ch or the unsatisfied negative cor the scope of the recirculation es suggested are an improvem Maintenance.	mments from the ballot.	previous ballots.					
PMDs operating only	154 supports various implement at one specific center frequer and to the frequency of choice.	ncy as well as oth						
receiver should be se	tion to: frequency of the 100GBASE-z elected or configured to suppo to which the two 100GBASE-Z	rt the same chanr	nel center frequency as					

								Ρ1	121			L 4	5		#	<u>R</u> 1-54	4	C/ 154	5	SC 1	54.7				P 122		L	30		# F	R1-55	
							F	utu	rew	ei Te	echn	ologie	s, U.S.	Subs	sidia	ry of H	luawei	D'Ambro	sia, Jo	ohn					Futurew	ei Tecł	nolog	gies, U.S	S. Subs	idiary	of Hua	vei
an e not est v the /DN hel ving bes	t is n ie be ithin thin t "DW d be showi 4 is t	t is r ie be ithin thin t "DW d be showi 4 is l	s an s no best in the DWD be he owing is be	in ex not in st wa the l he g DM help ing a pest	inter way e box gray VI Lin lpful j a se st use	mple ndeo to n x. y bo nk" ii l if or secor	e co d to not p ox a in w ne o nd f as a	nfigu place place rea white diag	of F fon re w xam	tion c any c ny co fig 15 it. n illus ith T	cons onstr 54-4 strate x / F of th	traints aints Cha ed all x on t		e impl conte e blox s going des of	leme ents v c to s ig in c f the	entatior would b solid bla one dir DWDN	n be to lack. irection M link.	"The whe pres Thre 1. R 2. A supp 3. C Suggest	ence 1000 e on t ent, e e issu place propr ort m arity c	states BAS the m ach s les DW riate o ultiple of ser	E-ZR F oultichan ourced DM sys operation operation of DWD of tence of	PMD i nnel by a stem on of M ch	s spec part in separ with D 100GI annels	cified side ate 1 WDN BASE	E-ZR co	assum < link n SE-ZR	nultipl trans	e DWD mitter."	M optic	al sigr	nals are	
Re ent on i	CT. mme uratio	CT. mme uratic	R mentation	<i>Res</i> ent is on in	is ab in Fig	bout bout	e Sta t Fiç e 15	atus gure 54-3	s W 9 154 is to	4 -3 ir o der	nste mon	strate	154-4. the fur inderst					Eac of 10 will r grid, inde DW freq shou	DWI 0GBA define num 0M fre ency ld be	DM cl ASE-2 e two ed by bers equen of the selec	nannel ZR PMI DWDW Table to the c cy grid e 100G cted to s	Ds. F 1 cha 154-0 optica defir BAS supp	Full du nnels. 6, whic al char ned by E-ZR F ort the	plex Eac ch sh inel c Rec PMD sam	support operation ch DWD ows the center fro ommeno transmi e chanr re conn	n betw M chai mappi equenc lation l ting ar el cent	een a nnel c ng of ies. TU-T id 100	pair of perates the 100 This grid G.694.)GBASI	100GB on a E GBASE d corres 1. The E-ZR P	ASE-2 WDM E-ZR c sponds chann MD re	ZR PMI I freque channel s to the nel cent ceiving	òs ncy er
																		See The	POSI respo respo	ED A0 onse t	CCEPT o comn o comn	⁻ IN F nent nent	RINC R1-41 R1-41	IPLE was:		,						
																		PF	२०	ROPOS	ROPOSED A	ROPOSED ACCEPT	ROPOSED ACCEPT IN F	ROPOSED ACCEPT IN PRINC	ROPOSED ACCEPT IN PRINCIPLE	e response to comment R1-41 was: ROPOSED ACCEPT IN PRINCIPLE.	ROPOSED ACCEPT IN PRINCIPLE.	ROPOSED ACCEPT IN PRINCIPLE.	ROPOSED ACCEPT IN PRINCIPLE.	ROPOSED ACCEPT IN PRINCIPLE.	ROPOSED ACCEPT IN PRINCIPLE.	

This comment does not apply to the substantive changes between IEEE P802.3ct/D3.1 and IEEE P802.3ct/D3.0 or the unsatisfied negative comments from the previous ballots. Hence it is not within the scope of the recirculation ballot. However, the changes suggested are an improvement to the draft that would otherwise need to be made in Maintenance.

For TF discussion. Section will need some rewording to clarify intents. With editorial license.

C/ 154										
	SC 154.81	P 124	L 47	# <u>R1-56</u>	C/ 154	SC 154.10		P 127	L 26	# <u>R</u> 1-58
D'Ambrosia	a, John	Futurewei Teo	hnologies, U.S.	Subsidiary of Huawei	D'Ambrosia	a, John		Futurewei Teo	chnologies, U.S.	Subsidiary of Huawei
Comment T	Type TR	Comment Status D			Comment 7	Type TR	Comment S	Status D		
	ansmit characteri ance are not defi	stics 1)Average launch powe ned in 154.10	r of OFF transm	itter and 2) transmitter		ack link charac ncies is not def		romatic disper	sion slope at ch	annel center
Suggested	Remedy				Suggested	Remedy				
add de	finitions.				add de	finition				
Proposed F	Response	Response Status W			Proposed I	Response	Response S	Status W		
PROP	OSED REJECT.				PROP	OSED REJEC	Г.			
IEEE P	9802.3ct/D3.0 or	t apply to the substantive cha the unsatisfied negative com le scope of the recirculation b	ments from the		IEEE F	P802.3ct/D3.0 d		d negative com	ments from the	EEE P802.3ct/D3.1 and previous ballots.
definitio "Averag	ons.	es are used in several in-force off transmitter" is a variant o	·	, I	Further					requiring a definition. Clauses, without
C/ 154	SC 154.8.2	P125	L 31	# R1-57	C/ 154a	SC 154a.2		P 145	L18	# <u>R</u> 1-59
					D'Ambrosia	a, John		Futurewei Teo	chnologies, U.S.	. Subsidiary of Huawei
D'Ambrosia	a, John	Futurewei Leo	hnologies, U.S.	Subsidiary of Huawei	•					
		· · · · ·	•	cubolalary of Haallor	Comment	Type ER	Comment S	Status D		
	51	Comment Status D stic receiver reflectance is not	defined in 154-1		The wo	51			." can be misinte	erpretted to mean the
The rea	ceive characteris		defined in 154-		The wo	ording "The bla ation space.			." can be misinte	erpretted to mean the
Comment T The red Suggested add de	ceive characteris Remedy		defined in 154-1		The wo applica Suggested	ording "The bla ation space. <i>Remedy</i>		peration space.		erpretted to mean the
The red S <i>uggested</i> add de	ceive characteris <i>Remedy</i> finition		t defined in 154-1		The wo applica Suggested	ording "The bla ation space. <i>Remedy</i> WDM link desig	ck link in this op	ion of operation		erpretted to mean the
The red Suggested add de Proposed F	ceive characteris <i>Remedy</i> finition	stic receiver reflectance is not Response Status W	t defined in 154-1		The wo applica Suggested The DV Proposed F	ording "The bla ation space. <i>Remedy</i> WDM link desig <i>Response</i>	ck link in this op ned for this regi	beration space. ion of operation Status W		erpretted to mean the
The rea Suggested add de Proposed F PROPO This co	ceive characteris <i>Remedy</i> finition Response OSED REJECT. pomment does no	stic receiver reflectance is not <i>Response Status</i> W	inges between IE	10 EEE P802.3ct/D3.1 and	The wo applica Suggested The DV Proposed F PROPO	ording "The bla ation space. <i>Remedy</i> WDM link desig Response OSED ACCEP	ck link in this op Ined for this regi <i>Response S</i> T IN PRINCIPLE	ion of operation Status W E.	n	erpretted to mean the
The rea Suggested, add de Proposed F PROPO This co IEEE F	ceive characteris <i>Remedy</i> finition Response OSED REJECT. pomment does no 2802.3ct/D3.0 or	stic receiver reflectance is not	inges between IE ments from the j	10 EEE P802.3ct/D3.1 and	The wo applica Suggested The DV Proposed F PROPO	ording "The bla ation space. <i>Remedy</i> WDM link desig Response OSED ACCEP	ck link in this op Ined for this regi <i>Response S</i> T IN PRINCIPLE	ion of operation Status W E.	n	
The rea Suggested add de Proposed F PROPO This co IEEE F Hence	ceive characteris Remedy finition Response OSED REJECT. omment does no '802.3ct/D3.0 or it is not within th	t apply to the substantive cha the unsatisfied negative com	inges between IE ments from the pallot.	10 EEE P802.3ct/D3.1 and previous ballots.	The wo applica Suggested The DV Proposed F PROPO	ording "The bla ation space. <i>IRemedy</i> WDM link desig <i>Response</i> OSED ACCEP nent remedy wi SC 154a.2	ck link in this op Ined for this regi <i>Response S</i> T IN PRINCIPLE	ion of operation Status W E. Ise and accord P145	n ing TF agreeme <i>L</i> 24	nts on terminology.
The rea Suggested add de Proposed F PROPO This co IEEE F Hence	ceive characteris <i>Remedy</i> finition <i>Response</i> OSED REJECT. omment does no 2802.3ct/D3.0 or it is not within th arameter name is	t apply to the substantive cha the unsatisfied negative com	inges between IE ments from the pallot.	10 EEE P802.3ct/D3.1 and previous ballots.	The wo applica Suggested The DV Proposed P PROPO Implem Cl 154a	An of the second	ck link in this op Ined for this regi <i>Response S</i> T IN PRINCIPLE	ion of operation Status W E. use and accord P 145 Futurewei Teo	n ing TF agreeme <i>L</i> 24	nts on terminology. # <u>R1-60</u>
The rea Suggested add de Proposed F PROPO This co IEEE F Hence This pa	ceive characteris <i>Remedy</i> finition <i>Response</i> OSED REJECT. omment does no 2802.3ct/D3.0 or it is not within th arameter name is	t apply to the substantive cha the unsatisfied negative com	inges between IE ments from the pallot.	10 EEE P802.3ct/D3.1 and previous ballots.	The wo applica Suggested The DV Proposed F PROPO Implem C/ 154a D'Ambrosia Comment T	ation space. <i>Remedy</i> WDM link desig <i>Response</i> OSED ACCEP nent remedy with SC 154a.2 a, John <i>Type</i> ER	ck link in this op Ined for this regi <i>Response S</i> T IN PRINCIPLE th editorial licen	ion of operation Status W E. ise and accord P145 Futurewei Teo Status D	n ing TF agreeme <i>L</i> 24 chnologies, U.S.	nts on terminology. # <u>R1-60</u> . Subsidiary of Huawei
The rea Suggested add de Proposed F PROPO This co IEEE F Hence This pa	ceive characteris <i>Remedy</i> finition <i>Response</i> OSED REJECT. omment does no 2802.3ct/D3.0 or it is not within th arameter name is	t apply to the substantive cha the unsatisfied negative com	inges between IE ments from the pallot.	10 EEE P802.3ct/D3.1 and previous ballots.	The wo applica Suggested The DV Proposed F PROPO Implem C/ 154a D'Ambrosia Comment T	ording "The bla ation space. <i>IRemedy</i> WDM link desig <i>Response</i> OSED ACCEP nent remedy wi SC 154a.2 a, John <i>Type</i> ER iclear what is m	ck link in this op Ined for this regi <i>Response</i> S T IN PRINCIPLE th editorial licen <i>Comment</i> S	ion of operation Status W E. ise and accord P145 Futurewei Teo Status D	n ing TF agreeme <i>L</i> 24 chnologies, U.S.	nts on terminology. # <u>R1-60</u> Subsidiary of Huawei
The rea Suggested add de Proposed F PROPO This co IEEE F Hence This pa	ceive characteris <i>Remedy</i> finition <i>Response</i> OSED REJECT. omment does no 2802.3ct/D3.0 or it is not within th arameter name is	t apply to the substantive cha the unsatisfied negative com	inges between IE ments from the pallot.	10 EEE P802.3ct/D3.1 and previous ballots.	The wo applica Suggested The DV Proposed H PROPO Implem C/ 154a D'Ambrosia Comment T It is un Suggested	ording "The bla ation space. <i>IRemedy</i> WDM link desig <i>Response</i> OSED ACCEP nent remedy wi SC 154a.2 a, John <i>Type</i> ER iclear what is m	ck link in this op Ined for this regi <i>Response</i> S T IN PRINCIPLE th editorial licen <i>Comment</i> S reant by - "need	ion of operation Status W E. ise and accord P145 Futurewei Teo Status D	n ing TF agreeme <i>L</i> 24 chnologies, U.S.	nts on terminology. # <u>R1-60</u> Subsidiary of Huawei
The rea Suggested add de Proposed F PROPO This co IEEE F Hence This pa	ceive characteris <i>Remedy</i> finition <i>Response</i> OSED REJECT. omment does no 2802.3ct/D3.0 or it is not within th arameter name is	t apply to the substantive cha the unsatisfied negative com	inges between IE ments from the pallot.	10 EEE P802.3ct/D3.1 and previous ballots.	The wo applica Suggested The DV Proposed H PROPO Implem C/ 154a D'Ambrosia Comment T It is un Suggested	Arring "The bla ation space. <i>Remedy</i> WDM link desig <i>Response</i> OSED ACCEP nent remedy with SC 154a.2 a, John <i>Type</i> ER inclear what is m <i>Remedy</i> e dimensioned	ck link in this op Ined for this regi <i>Response</i> S T IN PRINCIPLE th editorial licen <i>Comment</i> S reant by - "need	ion of operation Status W E. Isse and accord P145 Futurewei Teo Status D s to be dimens	n ing TF agreeme <i>L</i> 24 chnologies, U.S.	nts on terminology. # <u>R1-60</u> . Subsidiary of Huawei

C/ 1 SC 1.4.181a	P 26	L 21	# <u>R</u> 1-61	C/ 153	SC 153.2.3.	2.5	P 100	L37	# <u>R</u> 1-62
'Ambrosia, John	Futurewei Teo	chnologies, U.S.	Subsidiary of Huawei	D'Ambrosi	a, John		Futurewei Teo	chnologies, U.S.	Subsidiary of Huawei
<i>comment Type</i> GR This is a pile-on to comme					eads - A file cor	ntaining an exa		codeword is avail	able at
Commenter agrees with C with the provided reasonir I-3 commenter argues tha and redefining the term to	ng for rejecting the comme t the term "channel spacir	ent as being too l ng" is adequate f	limited. for use in this standard,	There	tandards.ieee.o is no file at the cument being p	provided link.		l that this note wa	as added in anticipatic
IEE-SA Standards Definiti	on.			Suggested	Remedy				
The current and only defin Dictionary Online is - "The	e difference between the co	enter frequencies	s of two nonoverlapping	lf no c delete		ovided to be u	sed at the URL	- then the note a	nd link will need to be
and adjacent channels of		s clear that the c	urrent definition is not	Proposed	Response	Response	Status W		
applicable, as it is specific	to a radio transmitter.			PROP	OSED ACCEP	T IN PRINCIPI	LE.		
As noted in A.2 Item C of serve to add a new definit be different enough from t two or three acceptable de	ion to an existing term(s) o he other term(s) so as to j	of the same nam justify the additio	ne should	If som	eone is able to	carry out the w	vork to create a	-clause 153.2.3.2 suitable codewor a subsequent ba	d prior to the
THerefore, as noted, in the	e comment this definition	is an industry ar	ccented term and the	C/ 154	SC 154.7.1		P 124	L 42	# R1-63
definition is referenced ba		is an industry at		Ran, Adee			Intel Corporat	ion	
uggestedRemedy				Comment	Туре Т	Comment	t Status D		Buci
Make no change to docun	ient.			(Subcl	uase number is	from the clea	n document - it	appears as 154.8	3.1 in the diff documer
Proposed Response PROPOSED ACCEPT.	Response Status W				ector magnitud 2 as an RMS v		e interpreted as	a peak value. Bu	t EVM is defined in
							clude RMS eithe should be used		.9.14 and 154.9.16
				Suggested	Remedy				
					e "Error vector RMS (subscript		"Error vector m	agnitude (RMS)"	and EVM to
				Proposed	Response	Response	Status W		
				PROP	OSED ACCEP	T IN PRINCIPI	LE.		
				IEEE F Hence Howey	9802.3ct/D3.0 c it is not within t	or the unsatisfie the scope of the s suggested ar	ed negative com	ments from the pallot.	EEE P802.3ct/D3.1 ar previous ballots. at would otherwise
				In 154	0 44 454 0			/ which is come	pletely consistent with

Comment ID R1-63

Page 19 of 30 2/15/2021 11:46:28 AM

C/ 154	SC 154.7.2	P 126	L18	# R1-64	CI A	SC A		P140	L14	# D1 66
	30 154.7.2			# <u>R</u> 1-04	Ran, Adee					# <u>R1-66</u>
Ran, Adee		Intel Corporatio	JI		,		_	Intel Corporatio	911 	
Comment T		Comment Status D			Comment		E	Comment Status D		
,		from the clean document - it a		,				T G.698.2 is referenced multip t (in the current 2018 revision)		not included in the
"shall" toleran	so it seems that ce) a characteris	eiver OSNR (min)" and the as the receiver is required to so stic of the receiver? from the c	mething. But is	OSNR (not OSNR	Suggested Add IT	Remedy U-T G.69	98.2.			
out of t	he receiver's co	ntrol.			Proposed	Response	Э	Response Status W		
	2 only defines O nan OSNR tolera	SNR tolerance (in 7.4.3). Is a	nything require	from the receiver	PROP	OSED RI	EJECT.			
Suggested		ance ?			ITU-T	G.698.2 i	s alread	dy listed as a normative refere	nce on page 21	1, line 45 of D3.1.
00	,	s in 154.9.15, or remove Rece	eiver OSNR (mi	n) from the table and	C/ 154	SC 15	54.4	P 108	L 47	# R1-67
delete	154.9.15.		,	,	Issenhuth,	Tom		Issenhuth Cons	sultina. LLC.Hu	awei Technologies Co.,
Proposed F	Response	Response Status Z			Comment		Е	Comment Status D	3, -,	Bucket
REJEC					The P	MA/PMD	register	name for "Tx Rx different opti register".	cal channel ab	
This co	omment was WI	THDRAWN by the commenter	ſ.		Suggested	Remedv		°		
C/ 154	SC 154.12.4.	6 P139	L 22	# R1-65	00		1A/PMD	register name with "Tx Rx diff	erent optical c	hannel ability".
Ran, Adee		Intel Corporation	on		Proposed	Response	Э	Response Status W		
Comment 1	Гуре Е	Comment Status D		Bucket	PROF	OSED A	CCEPT	IN PRINCIPLE.		
docum	ent) ck link requireme	from the clean document - it a ent", black should be capitalize			IEEE Hence Howe	P802.3ct/ e it is not v /er, the cł	D3.0 or within th nanges	t apply to the substantive char the unsatisfied negative comr is scope of the recirculation ba suggested are an improvemer intenance.	nents from the allot.	previous ballots.
Per col					Impler	nent reme	edy.			
Proposed F PROP	Response DSED ACCEPT	Response Status W								

C/ 154 SC 154.9.1	P117	L 7	# <u>R</u> 1-68	C/ 154	SC 15	54.8	P1	5	L 40	# <u>R</u> 1-70
ssenhuth, Tom	Issenhuth Consu	lting, LLC,Huaw	ei Technologies Co.,	Zhang, Bo			Inphi	Corporati	ion	
Comment Type E Commen Missing space in "centerfrequency"	t Status D		Bucket	Comment 7 for cha		E cing line	<i>Comment Status</i> e spec, the value and	-	swapped.	Bucke
SuggestedRemedy Change to "center frequency"				Suggested set 100	-		column and set GH	z under t	he Unit column.	
Proposed Response Response PROPOSED ACCEPT IN PRINCIP	Status W LE.			Proposed F PROP	•		Response Status IN PRINCIPLE.	w		
This comment does not apply to the IEEE P802.3ct/D3.0 or the unsatisfi Hence it is not within the scope of the However, the changes suggested a need to be made in Maintenance.	ed negative comme ne recirculation ballo	ents from the pre	vious ballots.	IEEE P Hence Howev need to	802.3ct/ it is not v er, the ch be mad	D3.0 or within th nanges le in Ma	t apply to the substai the unsatisfied nega e scope of the recirc suggested are an im intenance.	ive comi ilation ba	ments from the pallot.	
Implement remedy.				·	ient reme					
C/ 154 SC 154.7.1	P 114	L 8	# R1-69	C/ 154	SC 15	54.8	P1	5	L 51	# <u>R</u> 1-71
Zhang, Bo	Inphi Corporation			Zhang, Bo			Inphi	Corporati	ion	
Comment Type T Commen	t Status D			Comment 7	Гуре	т	Comment Status	D		Buck
The current table 154-7 transmit ch without which the interoperability ca SuggestedRemedy Recommend follow the jitter spec m Tx tables. Please refer to an earlier https://www.ieee802.org/3/ct/public/ Proposed Response Response PROPOSED REJECT. This comment does not apply to the and IEEE P802.3ct/D3.1 or the uns Hence it is not within the scope of th The jitter on transmitter specification in-force clauses has been controlled In this clause the transmitter jitter is eye mask or TDECQ specifications Furthermore the contribution mention interface specifications not application	nnot be guaranteed rethodologies detail contribution for mor tf_interim/20_0917/ Status W e substantive change atisfied negative con be recirculation balled is on existing PMDs d via the eye mask of controlled using the pend in the remedy i	ed in published 8 re background al zhang_3cw_01_ es between IEE8 mments from the ot. s for amplitude n or TDECQ speci e EVM specifical makes reference	202.3 100GBASE-xx ad details. 200917.pdf E P802.3ct/D3.0 previous ballot. nodulated signals in fication. ion instead of using t o electrical	confuse the way 3dB va Suggested Recom 'optical Proposed F PROPO	ed with th y it is def lue lacks Remedy mend ch path rec Response DSED AC	he optica fined con s some of nange th ceive set e CCEPT	uld be viewed as a si data support, and co	/ for ASE perset o ld requir path pena more sp W	E limited link. Th f optical path O re more discussi alty' to 'optical p pecific.	is new parameter as SNR penalty. Also, the

V 154 SC 154.8 P116 L7 # R1-72	C/ 154 SC 154.7.2 P115 L18 # R1-73
hang, Bo Inphi Corporation	Zhang, Bo Inphi Corporation
Comment Type T Comment Status D	Comment Type T Comment Status R
The unit of fiber chromatic dispersion slope at channel center frequencies (min) is incorrect.	Receiver OSNR (min) specs (35dB and 19.5dB) are redundant information as already
uggestedRemedy change from 'ps/nm2km' to 'ps/nm2/km' or 'ps/(nm2*km)' Proposed Response Response Status W	specified in table 154-9. For example, 35dB min OSNR for average receive power < - 16dBm is already specified in line#45 in table 154-9, and 19.5dB min OSNR for power >- 16dBm is already specified in line #47-48 in the same table on page 115. Furthermore, these specs are really link requirements and the naming should be indicating 'link-delivered OSNR' instead of 'Receiver OSNR'
PROPOSED REJECT.	SuggestedRemedy
This comment does not apply to the substantive changes between IEEE P802.3ct/D3.1 and	Recommend completely remove 'Receiver OSNR (min') line specs in table 154-8
IEEE P802.3ct/D3.0 or the unsatisfied negative comments from the previous ballots. Hence it is not within the scope of the recirculation ballot.	Response Response Status C
However, the changes suggested are an improvement to the draft that would otherwise need to be made in Maintenance.	REJECT.
The unit for the slope of fiber chromatic dispersion is completely consistent with existing in- force Clauses, e.g. in the 2018 version of the IEEE 802.3 standard.	The receiver OSNR (min) is an essential performance parameter for the receiver to meet, specified at its input TP3. This requirement is not only a requirement for the output at TP3 of the DWDM black link. Removing it from the list of receiver parameters will not improve the quality of the draft.
	Straw poll was taken:
	I support the proposed response (R1-73): Yes: 11 No: 3

There was no consensus to make a change.

/ 154A SC 154A.3 P133 L46 # <u>R</u> 1-74	Cl 153 SC 153.2.3.2.5 P91 L37 # <u>R1-76</u>
ang, Bo Inphi Corporation	Dawe, Piers J G NVIDIA
mment Type T Comment Status D	Comment Type E Comment Status D
Regarding table 154A-2, 154A-3, 154A-4, while one can appreciate the change of the table	
title from 40 channels, down to 16 channels and then 4 channels, the line items 'allocation for loss of 4:1 optical multiplexer/demultiplexer' remain the same in description yet the	n SuggestedRemedy
values are reduced from 6, to 4 and then 2dB, which does not make sense for a 4 channe	
multiplexers.	Proposed Response Response Status W
uggestedRemedy	PROPOSED ACCEPT IN PRINCIPLE.
Recommend modify the description name 'allocation for loss of 4:1 optical multiplexer/demultiplexer', and adjust their values accordingly to make practical sense (for example, a 50/50 coupler would incur 3.x dB loss).	
roposed Response Response Status W	The response to comment R1-62 was:
PROPOSED ACCEPT IN PRINCIPLE. See response to comment R1-34.	Delete the note including the URL at the end of sub-clause 153.2.3.2.5. If someone is able to carry out the work to create a suitable codeword prior to the completion of SA ballot, the note could be added in a subsequent ballot round.
The response to comment R1-34 was:	C/ 153 SC 153.2.3.2.5 P91 L37 # R1-77
PROPOSED ACCEPT IN PRINCIPLE.	Dawe, Piers J G NVIDIA
Cut-and-paste error in the Tables.	Comment Type E Comment Status D
Implement remedy with editorial license. / 154A SC 154A.1 P131 L40 # R1-75	Before a file containing an example SC-FEC codeword is published at http://standards.ieee.org/downloads/802.3/ and before this project can complete, it need to be reviewed. If reviewers do not agree on its correctness and consistency with the dra one or both of draft and file would need to be re-issued and reviewed again.
ang, Bo Inphi Corporation	SuggestedRemedy
omment Type T Comment Status D	Upload a draft file for review, e.g. in the P802.3ct web area, before the penultimate draft
The figure 154A-1 is a black link requirement and the current title could be confusing.	at the same time at the latest.
the Y axis naming lacks TP3 test point and could confuse reader as compared to other parameters such as receive OSNR tolerance, etc.	Proposed Response Response Status W
JagestedRemedy	PROPOSED ACCEPT IN PRINCIPLE.
	See response to comment R1-62.
Recommend change the Figure 154A-1 title to '100GBASE-ZR link requirements for link-	The response to comment R1-62 was:
delivered OSNR at TP3 versus link-delivered power at TP3'	
	Delete the note including the URL at the end of sub-clause 153.2.3.2.5.
delivered OSNR at TP3 versus link-delivered power at TP3' Suggest change the Y axis naming to 'link-delivered OSNR at TP3 (dB/12.5GHz)' Suggest change the X axis naming to 'link-delivered power at TP3 (dBm)'	Delete the note including the URL at the end of sub-clause 153.2.3.2.5. If someone is able to carry out the work to create a suitable codeword prior to the
delivered OSNR at TP3 versus link-delivered power at TP3' Suggest change the Y axis naming to 'link-delivered OSNR at TP3 (dB/12.5GHz)' Suggest change the X axis naming to 'link-delivered power at TP3 (dBm)'	Delete the note including the URL at the end of sub-clause 153.2.3.2.5.
delivered OSNR at TP3 versus link-delivered power at TP3' Suggest change the Y axis naming to 'link-delivered OSNR at TP3 (dB/12.5GHz)' Suggest change the X axis naming to 'link-delivered power at TP3 (dBm)' roposed Response Response Status W	Delete the note including the URL at the end of sub-clause 153.2.3.2.5. If someone is able to carry out the work to create a suitable codeword prior to the

45 SC 45.2.1.186aa	DAA	L 22	# D4 70	C/ 154 SC 154.	A6 8440	L 22	# 04.70
	P 41	L Z Z	# <u>R</u> 1-78			L Z Z	# <u>R</u> 1-79
awe, Piers J G	NVIDIA			Dawe, Piers J G	NVIDIA		
	mment Status D			Comment Type TR			
"1 = IFEC decoder does not there are no errors to be indi	ndicate errors" gave m	the impression	that it meant that		.0 comment 85 about jitter ban inition, although it is done in a		
	cated - until I saw that		r in a control register.		802.3 optical clauses. "worst-		
uggestedRemedy					se but little jitter or worst jitter b		oise. Different
To make this clearer, please 1 = IFEC decoder does not it					differently to these alternatives		
0 = IFEC decoder indicates e				SuggestedRemedy			
to					tter in the definition of receiver		
1 = IFEC decoder does not in 0 = IFEC decoder indicates a		5		requirements in ot	eeded, analogous to the stress ner clauses.	ed sensitivity/RIT	and litter tolerance
Proposed Response Re	sponse Status W			Proposed Response	Response Status W		
PROPOSED REJECT.				PROPOSED REJ	ECT		
				The proposed rem various different c This would imply t would need to be something the Tas because it would t Related comment signal strength, sin amplified case, OS support not makin Y - 19 N - 5 A - 3 As a result it was document on com	in the scope of the recirculation edy would imply that the receiv ases of worst case EVM and thi pat various transmitter impairm specified separately for impact of k Force has not agreed to do for e virtually impossible to specify I-55 to D3.0 to add clear, speci busoidal jitter, EVM_RMS, IQ of SNR, was rejected by the Task g any changes to the draft base concluded that there was no con ment I-55. lerance is a parameter similar t	er performance wo us for all kinds of d ents, for instance lo on the receiver performed the worst case co fic receiver sensitive fset, chromatic dis Force after a straw d on this comment	ifferent impairments. Q offset, IQ skew, jitte formance, which is of OSNR tolerance, ndition. rity criteria, addressing persion, and for the poll was taken: "I

C/ 80 SC 80.2.2	P 56	L 2	# <u>R</u> 1-80	C/ 1	SC 1.4.160a	P 22	L15	# <u>R</u> 1-82
Dawe, Piers J G	NVIDIA			Dawe, Pie	ers J G	NVIDIA		
Comment Type T	Comment Status D			Comment	Туре Т	Comment Status D		
Clause 82 PCSs transfe	er the encoded data to the	e PMA.			3.0 comment 87 sa the PMD	aid, the path between PMDs	is not from TP2	to TP3 because TP2 is
SuggestedRemedy				Suggeste	dRemedv			
Clause 82 PCSs transfe	er the encoded data to the	e PMA or FEC		00		o TP3" to something else e.	a. "between PMI	Ds". "between MDIs".
	Response Status W					ween transmitter and receiv		, , ,
PROPOSED ACCEPT.				Proposed	Response	Response Status 🛛 🛛 🛛 🛛 🛛 🖉		
C/ 154A SC 154A	P 131	L 9	# R1-81	PROF	POSED ACCEPT I	N PRINCIPLE.		
Dawe, Piers J G	NVIDIA			For ta	sk force discussio	n.		
<i>Comment Type</i> T This (welcome) annex is n	Comment Status D			C/ 154	SC 154.6	P 113	L 31	# R1-83
(, , , , , , , , , , , , , , , , , , ,	or about applications.			Dawe, Pie	ers J G	NVIDIA		
SuggestedRemedy Change to the following (w brackets, by the way):	/here "black link" could al	lso be omitted as	shown by square	<i>Comment</i> What	<i>Type</i> E variable?	Comment Status D		Bucke
Examples of 100GBASE-2				Suggeste	dRemedy			
154A.2 [Black link] examp (12.5 GHz) For any [black link] distand Specifically in an example	ce (twice)	etween 19.5 dB (1	2.5 GHz) and 35 dB	Tx_op		nce to 154.5 (new section(s ex, Rx_optical_channel_inde		
154A.3 [Black link] examp		ater than or equa	ll to 35 dB (12.5 GHz)	Proposed	Response	Response Status W		
four examples with OSNR is not a multi-channel link,	but rather a single chann	nel link, and there	efore a conventional	PROF	POSED ACCEPT I	N PRINCIPLE.		
point-to-point Ethernet link Table 154A-240 channel		0SNR (TP3) >=	35 dB (12.5 GHz)	This c IEEE	omment does not P802.3ct/D3.0 or t	apply to the substantive chatter the unsatisfied negative con	anges between II nments from the	EEE P802.3ct/D3.1 and previous ballots.
Proposed Response	Response Status W			Hence	e it is not within the	e scope of the recirculation t	pallot.	
PROPOSED ACCEPT IN	PRINCIPLE.				ver, the changes s to be made in Mai	suggested are an improvement ntenance.	ent to the draft th	at would otherwise
Change title of Annex 154 "Examples of 100GBASE-		ack links".				ence to the definition of the r	mentioned variab	oles in 154.5. With
Furthermore the text under 154A-5 is a separate case or optical demultiplexer, so link, but rather a single ch	e, because the black link o o that the fiber plant insid annel link, and therefore a	does not contain le the black link is a conventional po	an optical multiplexer s not a multi-channel pint-to-point Ethernet	editor	ial license.			

application where the PMDs at TP2 and TP3 are connected only via a combination of fiber and optical connectors."

C/ 154 SC 154.7.1	P 114	L 3	# R1-84	C/ 154 SC 15	4.7.2	P115	L18	# <u>R</u> 1-86
Dawe, Piers J G	NVIDIA			Dawe, Piers J G		NVIDIA		
Comment Type TR Comment With regard to D3.0 comment 58, 1 optical clauses usually have some the transmitted after chromatic dis EVMrms does not do this, so is the spectral excursion provide the nect uggestedRemedy Ensure that the combination of transignal. Response REJECT. The commenter has not provided a passing the requirements while no DWDM black links specified. The technology generally used for extremely high tolerance to chroma specific parameters. The dispersion	nt Status R tolerance to chro thing like TDP or persion to enforc ere a gap that ne essary protection nsmitter and max <i>he Status</i> U any evidence that t operating not sa DP-DQPSK mod atic dispersion by on limits specified	TDECQ involvir egood transmitt eds to be filled? n? x / min dispersion t the specificatio atisfactorily in the dulated devices i y design, not req d in Table 154-9 f	ng a measurement of er behaviour. I believe Does the maximum n will deliver a usable n is allowing devices e field for the range of nherently have an uiring the addition of for the DWDM black link	Comment Type I In Table 154-8, Receiver sensitive tolerance (not me 154.9.13, Average define the range met at the value 154.9.15, Receive The Receiver OS power range spe 154.9.16, Receive Receiver OSNR Recommendation As the receiver of OSNR (min)" are they are condition receiver OSNR),	100GBASE vity (max) (i ax or min). ge receive p eeive power of average s of minimu ver OSNR, i SNR shall b coffied in Ta ver OSNR to tolerance s on ITU-T G.(can't choose e not specifions for avera , similar to to	Comment Status A -ZR receive characterist nformative), Receiver O power, says: shall be within the limits receiver input power ov m OSNR defined in Tab says: e within the limits given ble 154-8. OSNR is defi olerance, says: hall be within the limit gi	SNR (min), and F given in Table 1 er which the BEF le 154-8. in Table 154-8 or ned in 154.9.11. ven in Table 154 it seems the entr to meet, as the P rerage receive posed receive posed	Receiver OSNR 54-8. These limits R requirement must be ver the average receiv -8 and is defined in ries for "Receiver PICS puts it, but that ower are conditions fo sitivity test or a receive
are a sufficient condition in combin C/ 153 SC 153.2.3.2.4 Dawe, Piers J G	P 88 NVIDIA	otical path penalt	# R1-85	OSNR at TP3 (n SuggestedRemedy	nin).	154.7.1 and 154.8 for 1		
Some text in Fig 153-3 is too smal SuggestedRemedy Make the smallest text (MFAS and will make row 0 deeper, and that's	l column number: OK). e <i>Status</i> W PLE. ly higher so that 5pt). qual, or making th	the point size for	MFAS can be 6 octets) and MFAS	In Table 154-8, o change "minimu 154.9.11.". Dele Table 154-8 cou receiver OSNR, <i>Response</i> ACCEPT IN PRI See response to The response to REJECT.	change "Re m OSNR" tr ete 154.9.15 Id be clarifie or by puttin <i>Re</i> INCIPLE. o comment I	ed, e.g. with a footnote li g these rows next to eac esponse Status C R1-73.	Minimum OSNR P3", and add "OS nking average re ch other.	at TP3". In 154.9.13, SNR is defined in aceive power and

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Comment ID R1-86

Page 26 of 30 2/15/2021 11:46:28 AM C/ 154

SC 154.7.1

I support the proposed response (R1-73): Yes: 11 No: 3

There was no consensus to make a change.

See response to comment R1-99.

The response to comment R1-99 was:

ACCEPT IN PRINCIPLE.

Implement remedy with editorial license.

Cl 154	SC 154.9.19	P 119	L 36	# <u>R1-87</u>
Dawe, Pie	rs J G	NVIDIA		
Comment Need	51	Comment Status D ceiver would be used.		
Suggested Is it th		er in Annex A of G.698.2?		
Proposed PROP	Response OSED ACCEPT I	Response Status W N PRINCIPLE.		

Modify first sentence of 154.9.19 to:

"The optical path penalty shall be within the limit given in Table 154-9 and is defined as the apparent reduction of receiver sensitivity due to distortion of the signal during its transmission over the black link, using the reference receiver as defined in Annex A of Recommendation G.698.2."

Suggestedl	<i>Type</i> T r difference be	NVII <i>Comment Statu</i> etween X-Y polarizatio	D	X minus Y	Buck
"Power Suggestedl	r difference be		-	X minus Y	
Suggestedl		etween X-Y polarizatio	s": What's an	X minus Y	n a la viz a ti a v O
00	Romody			X minuo 1	polarization?
Call it "	Nerneuy				
		nce between polarizat for "Skew between X-۱			2 which provides the
Proposed F	Response	Response Status	W		
PROPO	OSED ACCE	PT IN PRINCIPLE.			
Hence Howeve need to Change	it is not withir er, the change be made in l e parameter r	or the unsatisfied neg n the scope of the recir es suggested are an ir Maintenance. name to "Power differe nd Y polarizations"	culation ballot.	the draft th	at would otherwise
C/ 154A	SC 154A.2	2 P	32	L 33	# R1-89
Dawe, Piers	rs J G	NVI	AIA		
Comment 7	Туре Т	Comment Statu	D		
must b 34 dB ເ	e between -8	passive loss of 34 dB to 0 dBm so the ampli k knows or reacts appr 42 dB.	ication must b	e between	34-8 = 26 and 34-0 =
Suggestedl	Remedy				
Provide exampl	•	nation as to how this is	to work, or ch	ange to the	simple conservative
Proposed F	Response	Response Status	w		
PROPO	OSED ACCE	PT IN PRINCIPLE.			
"This s	en black link ir	sentence to: mplification between 1 nput and output power between black link inj	of 16 dB) and	42 dB per o	hannel (for a

P114

L29

R1-88

C/ 154	SC 154.8	P 116	L18	# <u>R</u> 1-90	C/ 154	SC 154.9.15	P116	L19	# <u>R</u> 1-92
Dawe, Piers	JG	NVIDIA			Dawe, Pier	rs J G	NVIDIA		
Comment T	уре Т	Comment Status D			Comment	Туре Е	Comment Status D		
shows 4 comply	8 channels, but	ble channel center frequencie : it is not clear whether a com els, as implied here, or wheth 40 channels").	pliant 100GBAS	E-ZR black link has to	betwee polariz	en the fractions of	erential Group Delay (DGD) a pulse that were transmitte I signal" has been in the def now.	ed in the two pri	ncipal states of
SuggestedF	Remedy				Suggested	Remedy			
Please	clarify.				Delete	this first sentenc	э.		
Proposed R	esponse	Response Status W			Proposed I	Response	Response Status W		
PROPO	SED REJECT.				PROP	OSED REJECT.			
IEEE P8 Hence i	802.3ct/D3.0 or t t is not within the	apply to the substantive cha the unsatisfied negative com e scope of the recirculation b subclause 154.6.	ments from the		IEEE F Hence	P802.3ct/D3.0 or it is not within the	apply to the substantive cha he unsatisfied negative con e scope of the recirculation to sed remedy will not improve	ments from the ballot.	previous ballots.
C/ 154	SC 154.9.15	P116	L10	# <u>R</u> 1-91	C/ 154	SC 154.5	P109	L 32	# <u>R</u> 1-93
Dawe, Piers	JG	NVIDIA			Dawe, Pier	rs J G	NVIDIA		
	/s "DGD (max)"	Comment Status D while many other clauses ar	d footnote b say	Bucket DGD_max.			Comment Status D pecifications, should introdu	ice or define all	the PMD control and
SuggestedF		e "Differential group delay, D		lovinum difforantial	Suggested	Remedy			
	elay, DGD max		GD (max) to w		Add te	xt for the missing	PMD control and status var		
Proposed R	esponse	Response Status W			Tx_opt	tical_channel_ind	ex, Rx optical channel index bility, Rx_index_ability_i .	, Tx_index_abili	ty_i,
PROPO	SED ACCEPT	IN PRINCIPLE.			Proposed I		Response Status W		
This oor	mmont dooo not	apply to the substantive cha	ngoo botwoon ll	EE D902 2at/D2 1 and	-	OSED REJECT.	Response Status w		
IEEE P	302.3ct/D3.0 or	the unsatisfied negative com	ments from the	previous ballots.	11(0)				
Howeve		e scope of the recirculation b suggested are an improveme intenance.		at would otherwise	IEEE F	P802.3ct/D3.0 or	apply to the substantive cha he unsatisfied negative con a scope of the recirculation b	ments from the	
Change	to "Maximum d	ifferential group delay, DGD	max"		The va	riables mentione	d in the remedy are clarified	Clause 45 and	subclause 154.6
		d ER/editorial required GR/							

C/ 154 SC 154.4	P 108	L 47	# <u>R</u> 1-94	C/ 154	SC 154.7.2	P11	5 L21	# <u>R</u> 1-96
Dawe, Piers J G	NVIDIA			Maniloff, E	ric	ciena		
Comment Type E	Comment Status D		Bucket	Comment	Туре Т	Comment Status	D	Bucke
String search doesn't find	l Tx_Rx_diff_opt_chan_abi	ility		The op	otical power for R	eceiver OSNR Tolera	nce is not stated.	
SuggestedRemedy				Suggestea	Remedy			
	nn widths to contents. The	ere's a menu item	in Frame for doing	Add a	footnote, "Receiv	ver OSNR Tolerance n	nust be met for optic	al powers >= -16dBm"
just that.				Proposed	Response	Response Status	W	
	Response Status W			PROP	OSED ACCEPT	IN PRINCIPLE.		
PROPOSED ACCEPT IN	I PRINCIPLE.			Add ur	nder row for Rece	eiver OSNR tolerance	"For average receive	e power >= -16 dBm"
	pply to the substantive cha						-	•
	e unsatisfied negative com scope of the recirculation b		previous ballots.	C/ 154	SC 154.9.14	P11	9 L5	# <u>R</u> 1-97
However, the changes su	iggested are an improveme		at would otherwise	Maniloff, E		ciena		
need to be made in Maint	tenance.			Comment	• •	Comment Status		Bucke
Implement remedy with e	ditorial license.			of disp	persion or reflection		ath". It should clarify	to be met in the presence that it does not have to
/ 154 SC 154.9.15	P 119	L 13	# <u>R</u> 1-95	Suggestea	,		•	
				ouggesieu	interneuy			
awe, Piers J G	NVIDIA			Modify	/ Sentence to cla	rify that the Receiver S	Sensitivity does not h	ave to be met in the
,	NVIDIA Comment Status D		Bucket	Modify preser	/ Sentence to clai	rify that the Receiver S impairments defined fo	Sensitivity does not h or the Black Link.	nave to be met in the
I could not find a stateme OSNR qualification includ	Comment Status D Int as to whether signals fo le chromatic dispersion, in	terferometric cros	e power and receiver sstalk, reflections or	preser Proposed	nce of any of the Response	impairments defined for Response Status	or the Black Link.	ave to be met in the
Comment Type TR I could not find a stateme OSNR qualification includ not. As the path penalty i the numbers in Table 154	Comment Status D Int as to whether signals fo	terferometric cros ike a large ambig lack link) match,	e power and receiver sstalk, reflections or uity. Considering that I would think the major	preser Proposed PROP	nce of any of the	impairments defined for Response Status IN PRINCIPLE.	or the Black Link.	ave to be met in the
Comment Type TR I could not find a stateme OSNR qualification includ not. As the path penalty i the numbers in Table 154 ones should be included.	Comment Status D Int as to whether signals fo le chromatic dispersion, in may be 3 dB, this seems li I-8 (receiver) and 154-9 (bl	terferometric cros ike a large ambig lack link) match,	e power and receiver sstalk, reflections or uity. Considering that I would think the major	preser Proposed PROP	nce of any of the <i>Response</i> OSED ACCEPT	impairments defined for Response Status IN PRINCIPLE.	or the Black Link. W	ave to be met in the
Comment Type TR I could not find a stateme OSNR qualification includ not. As the path penalty in the numbers in Table 154 ones should be included. State Comment State C	Comment Status D ent as to whether signals for le chromatic dispersion, in may be 3 dB, this seems li I-8 (receiver) and 154-9 (bl D3.0 comment 58 pointed	terferometric cros ike a large ambig lack link) match, d out this or a sim	e power and receiver sstalk, reflections or uity. Considering that I would think the major nilar issue.	preser Proposed PROP Impler	nce of any of the Response OSED ACCEPT ment remedy with SC 154.9.15	impairments defined fo <i>Response Status</i> IN PRINCIPLE. editorial license.	or the Black Link. W	
Comment Type TR I could not find a stateme OSNR qualification includ not. As the path penalty in the numbers in Table 154 ones should be included. SuggestedRemedy Please clarify. Preferably, explain more f	Comment Status D ent as to whether signals for le chromatic dispersion, in may be 3 dB, this seems li I-8 (receiver) and 154-9 (bl D3.0 comment 58 pointed fully how this measuremen	terferometric cros ike a large ambig lack link) match, d out this or a sim	e power and receiver sstalk, reflections or uity. Considering that I would think the major nilar issue.	Proposed Proposed PROP Implen Cl 154	nce of any of the Response OSED ACCEPT ment remedy with SC 154.9.15 iric	impairments defined fo Response Status IN PRINCIPLE. editorial license. P11	or the Black Link. W 9 L13	
Comment Type TR I could not find a stateme OSNR qualification includ not. As the path penalty i the numbers in Table 154 ones should be included. CuggestedRemedy Please clarify. Preferably, explain more f after max / min chromatic	Comment Status D ent as to whether signals for le chromatic dispersion, in may be 3 dB, this seems li I-8 (receiver) and 154-9 (bl D3.0 comment 58 pointed fully how this measuremen	terferometric cros ike a large ambig lack link) match, d out this or a sim	e power and receiver sstalk, reflections or uity. Considering that I would think the major nilar issue.	preser Proposed I PROP Impler Cl 154 Maniloff, E Comment This se	nce of any of the Response OSED ACCEPT ment remedy with SC 154.9.15 fric Type T ection should clear	impairments defined fo Response Status IN PRINCIPLE. editorial license. P119 ciena Comment Status	or the Black Link. W 9 L13 D	# <mark>R1-98</mark>
Comment Type TR I could not find a stateme OSNR qualification includ not. As the path penalty i the numbers in Table 154 ones should be included. SuggestedRemedy Please clarify. Preferably, explain more f after max / min chromatic	Comment Status D ant as to whether signals for le chromatic dispersion, in may be 3 dB, this seems li I-8 (receiver) and 154-9 (bl D3.0 comment 58 pointed fully how this measurement c dispersion. Response Status W	terferometric cros ike a large ambig lack link) match, d out this or a sim	e power and receiver sstalk, reflections or uity. Considering that I would think the major nilar issue.	preser Proposed PROP Implen Cl 154 Maniloff, E Comment This se impain	nce of any of the Response OSED ACCEPT ment remedy with SC 154.9.15 fric Type T ection should clear ments.	impairments defined fo Response Status IN PRINCIPLE. editorial license. P119 ciena Comment Status	or the Black Link. W 9 L13 D	# <mark>R1-98</mark> Bucke
Comment Type TR I could not find a stateme OSNR qualification includ not. As the path penalty i the numbers in Table 154 ones should be included. CuggestedRemedy Please clarify. Preferably, explain more f after max / min chromatic Croposed Response PROPOSED ACCEPT IN	Comment Status D ent as to whether signals for le chromatic dispersion, in may be 3 dB, this seems li I-8 (receiver) and 154-9 (bl D3.0 comment 58 pointed fully how this measurement c dispersion. Response Status W I PRINCIPLE.	terferometric cros ike a large ambig lack link) match, d out this or a sim	e power and receiver sstalk, reflections or uity. Considering that I would think the major nilar issue.	preser Proposed I PROP Implen Cl 154 Maniloff, E Comment This se impain Suggested	nce of any of the Response OSED ACCEPT ment remedy with SC 154.9.15 ric Type T ection should clea ments. IRemedy	impairments defined fo <i>Response Status</i> IN PRINCIPLE. editorial license. <i>P</i> 119 ciena <i>Comment Status</i> arly state that this OSI	or the Black Link. W 9 L13 D NR tolerance must b	# <u>R1-98</u> Bucke e met after the black link
omment Type TR I could not find a stateme OSNR qualification includ not. As the path penalty i the numbers in Table 154 ones should be included. uggestedRemedy Please clarify. Preferably, explain more f after max / min chromatic roposed Response	Comment Status D ent as to whether signals for le chromatic dispersion, in may be 3 dB, this seems li I-8 (receiver) and 154-9 (bl D3.0 comment 58 pointed fully how this measurement c dispersion. Response Status W I PRINCIPLE.	terferometric cros ike a large ambig lack link) match, d out this or a sim	e power and receiver sstalk, reflections or uity. Considering that I would think the major nilar issue.	preser Proposed I PROP Implen Cl 154 Maniloff, E Comment This se impain Suggested Modify	nce of any of the Response OSED ACCEPT ment remedy with SC 154.9.15 rric Type T ection should clear ments. IRemedy v "The Receiver C	impairments defined fo Response Status IN PRINCIPLE. editorial license. P119 ciena Comment Status arly state that this OSI OSNR shall be within th	or the Black Link. W 9 L13 D NR tolerance must b he limits given in Tal	# <u>R1-98</u> Bucke e met after the black link ble 154-8 over the
Comment Type TR I could not find a stateme OSNR qualification includ not. As the path penalty i the numbers in Table 154 ones should be included. <i>SuggestedRemedy</i> Please clarify. Preferably, explain more fa after max / min chromatic Proposed Response PROPOSED ACCEPT IN	Comment Status D ent as to whether signals for le chromatic dispersion, in may be 3 dB, this seems li I-8 (receiver) and 154-9 (bl D3.0 comment 58 pointed fully how this measurement dispersion. Response Status W I PRINCIPLE. ht R1-99.	terferometric cros ike a large ambig lack link) match, d out this or a sim	e power and receiver sstalk, reflections or uity. Considering that I would think the major nilar issue.	preser Proposed I PROP Implen Cl 154 Maniloff, E Comment This se impain Suggested Modify average	nce of any of the Response OSED ACCEPT ment remedy with SC 154.9.15 rric Type T ection should clear ments. IRemedy v "The Receiver C	impairments defined fo Response Status IN PRINCIPLE. editorial license. P119 ciena Comment Status arly state that this OSI OSNR shall be within the range specified in Tab	or the Black Link. W 9 L13 9 NR tolerance must b 10 he limits given in Tal	# <u>R1-98</u> Bucke e met after the black link
Comment Type TR I could not find a stateme OSNR qualification includ not. As the path penalty in the numbers in Table 154 ones should be included. <i>SuggestedRemedy</i> Please clarify. Preferably, explain more for after max / min chromatic Proposed Response PROPOSED ACCEPT IN See response to comment	Comment Status D ent as to whether signals for le chromatic dispersion, in may be 3 dB, this seems li I-8 (receiver) and 154-9 (bl D3.0 comment 58 pointed fully how this measurement dispersion. <i>Response Status</i> W I PRINCIPLE. ht R1-99. ht R1-99 was:	terferometric cros ike a large ambig lack link) match, d out this or a sim	e power and receiver sstalk, reflections or uity. Considering that I would think the major nilar issue.	preser Proposed I PROP Implen Cl 154 Maniloff, E Comment This se impain Suggested Modify average	nce of any of the Response OSED ACCEPT ment remedy with SC 154.9.15 ric Type T ection should clea ments. IRemedy ("The Receiver C ge receive power link impairments.	impairments defined fo Response Status IN PRINCIPLE. editorial license. P119 ciena Comment Status arly state that this OSI OSNR shall be within the range specified in Tab	or the Black Link. W 9	# <u>R1-98</u> Bucke e met after the black link ble 154-8 over the
Comment Type TR I could not find a stateme OSNR qualification includ not. As the path penalty i the numbers in Table 154 ones should be included. CuggestedRemedy Please clarify. Preferably, explain more f after max / min chromatic Proposed Response PROPOSED ACCEPT IN See response to commen The response to commen	Comment Status D Int as to whether signals for the chromatic dispersion, in may be 3 dB, this seems li I-8 (receiver) and 154-9 (bl D3.0 comment 58 pointed fully how this measurement c dispersion. Response Status W I PRINCIPLE. I PRINCIPLE.	terferometric cros ike a large ambig lack link) match, d out this or a sim	e power and receiver sstalk, reflections or uity. Considering that I would think the major nilar issue.	Proposed I PROP Implen Cl 154 Maniloff, E Comment This se impain Suggested Modify averag black I Proposed I	nce of any of the Response OSED ACCEPT ment remedy with SC 154.9.15 ric Type T ection should clea ments. IRemedy ("The Receiver C ge receive power link impairments.	impairments defined fo Response Status IN PRINCIPLE. editorial license. P119 ciena Comment Status arly state that this OSI OSNR shall be within the range specified in Tata Response Status	or the Black Link. W 9	# <u>R1-98</u> Bucke e met after the black link ble 154-8 over the
Comment Type TR I could not find a stateme OSNR qualification includ not. As the path penalty in the numbers in Table 154 ones should be included. SuggestedRemedy Please clarify. Preferably, explain more fa after max / min chromatic Proposed Response PROPOSED ACCEPT IN See response to comment The response to comment	Comment Status D Int as to whether signals for the chromatic dispersion, in may be 3 dB, this seems li I-8 (receiver) and 154-9 (bl D3.0 comment 58 pointed fully how this measurement c dispersion. Response Status W I PRINCIPLE. I PRINCIPLE.	terferometric cros ike a large ambig lack link) match, d out this or a sim	e power and receiver sstalk, reflections or uity. Considering that I would think the major nilar issue.	Proposed I PROP Implem Cl 154 Maniloff, E Comment This se impair Suggested Modify average black I Proposed I PROP	nce of any of the Response OSED ACCEPT ment remedy with SC 154.9.15 Fric Type T ection should clear ments. Remedy "The Receiver C ge receive power link impairments. Response OSED ACCEPT	impairments defined fo Response Status IN PRINCIPLE. editorial license. P119 ciena Comment Status arly state that this OSI OSNR shall be within the range specified in Tata Response Status	or the Black Link. W 9 L13 D NR tolerance must b he limits given in Tal ole 154-8" to indicate W	# <u>R1-98</u> Bucke e met after the black link ble 154-8 over the

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

	SC 154.9.15	P 119	L13	# <u>R</u> 1-99
Maniloff, E	Eric	ciena		
Comment	Туре Т	Comment Status A		Bucke
	tatement does not is delivered by the	make clear that this is an C link.	SNR tolerance, r	ather it sounds like it's
Suggeste	dRemedy			
	y "The Receiver O R >= this value."	SNR shall be within" to "The	e Receiver shall b	e able to tolerate an
Response)	Response Status C		
ACCE	EPT IN PRINCIPLE	<u>.</u>		
Imple	ment remedy with	editorial license.		
C/ 154	SC 154.9.16	P119	L18	# <u>R1-100</u>
Maniloff, E	Eric	ciena		
Comment	Туре Т	Comment Status D		
		dicate that the Receiver OS		es not need to be met
	presence of the b	ack link optical impairments	5.	
in the	•	ack link optical impairments		
in the <i>Suggeste</i> e Add te	dRemedy	ndicating that this OSNR To		need to be met in the
in the Suggestee Add te prese	d <i>Remedy</i> ext ti this section in	ndicating that this OSNR To		need to be met in the

PMD, PDL or optical crosstalk; these effects are specified separately in the allocation of

maximum optical path OSNR penalty." See also resolution to comment R1-4.