CIO SC	0	Р	L	# R1-4	C/ 0	SC O	Р	L	# R1-13
/laytum, Michael		Retired,Reti	red/Unemployed		Maytum, M	lichael	Retired, Retir	ed/Unemployed	
Comment Type	GR C	Comment Status A			Comment	Type G	Comment Status A		
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(10BASE-T) 14.3.1.1 Isolation requirement (1000BASE-T) 40.6.1.1 Isolation requirement (10GBASE-T) 55.5.1 Isolation requirement (25G/40GBASE-T) 113.5.1 Isolation requirement (2.5G/5GBASE-T) 126.5.1 Isolation requirement (POE) 33.4.1 Isolation (POE) 145.4.1 Isolation"

CIO SCO	Р	L	# R1-7
Maytum, Michael	Retired, Retir	ed/Unemployed	
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(2.5G/5GBASE-T) 126.5.1 Isolation requirement (POE) 33.4.1 Isolation (POE) 145.4.1 Isolation

C/ 0 SC 0

P**40**

Maytum, Michael

Retired.Retired/Unemployed

Comment Type TR Comment Status A

The following has been deleted

"c) An impulse test consisting of a 1500 V, 10/700 μ s waveform, applied 10 times, with a 60 s interval between pulses. The shape of the impulses shall be 10/700 μ s (10 μ s virtual front time, 700 μ s virtual time of half value), as defined in IEC 60950-1:2001 Annex N."

L17

R1-5

and replaced by

"This electrical isolation shall meet the isolation requirements as specified in J.1." However, electrical strength test c) in J.1 is 2.4 kV, 1.2/50, not 1.5 kV, 10/700 making a change to the original technical requirement.

SuggestedRemedy

Revert to the original 1.5 kV, 10/700 test while still referencing J.1. Suggested correction is

"This electrical isolation shall meet the isolation requirements as specified in J.1. with electrical strength test c) details being replaced by "An impulse test consisting of a 1500 V, 10/700 waveform, applied 10 times, with a 60 s interval between pulses. The shape of the impulses is 10/700 (10 μ s virtual front time, 700 μ s virtual time to half value), as defined in ITU-T Recommendation K.44."

Proposers note: Annex N states "The impulse test circuit for the 10/700 μ s (10 μ s virtual front time, 700 μ s virtual time to half value) impulse is that specified in ITU-T Recommendation K.17". K.17 has been withdrawn, but its 10/700 content has been incorporated into ITU-T Recommendation K.44.

Response Status C

Response

ACCEPT.

CI 0 SC 0 P40 L17 # R1-11

Maytum, Michael Retired, Retired/Unemployed

Comment Type TR Comment Status A

The following has been deleted

"c) An impulse test consisting of a 1500 V, 10/700 μ s waveform, applied 10 times, with a 60 s interval between pulses. The shape of the impulses shall be 10/700 μ s (10 μ s virtual front time, 700 μ s virtual time of half value), as defined in IEC 60950-1:2001 Annex N."

and replaced by

"This electrical isolation shall meet the isolation requirements as specified in J.1." However, electrical strength test c) in J.1 is 2.4 kV, 1.2/50, not 1.5 kV, 10/700 making a change to the original technical requirement.

SuggestedRemedy

Revert to the original 1.5 kV, 10/700 test while still referencing J.1. Suggested correction is

"This electrical isolation shall meet the isolation requirements as specified in J.1. with electrical strength test c) details being replaced by "An impulse test consisting of a 1500 V, 10/700 waveform, applied 10 times, with a 60 s interval between pulses. The shape of the impulses is 10/700 (10 μ s virtual front time, 700 μ s virtual time to half value), as defined in ITU-T Recommendation K.44."

Proposers note: Annex N states "The impulse test circuit for the 10/700 μ s (10 μ s virtual front time, 700 μ s virtual time to half value) impulse is that specified in ITU-T Recommendation K.17". K.17 has been withdrawn, but its 10/700 content has been incorporated into ITU-T Recommendation K.44.

Response Response Status C

ACCEPT IN PRINCIPLE.

Duplicate of Comment R1-5 The resolution of Comment R1-5 is "ACCEPT. "

CI O	SC O	P 63	L11	# R1-17	C/ 0	SC O		P 112	L 26	# R1-12
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Ran, Adee

Intel Corporation

Comment Type TR Comment Status R

This comment applies to 70.9.1, 71.9.1, 72.9.1, 84.10.1, 93.10.1, 94.5.1, 130.9.1, 83A.6.1, and 83B.3, which specify backplane PHYs and chip-to-chip AUIs.

The change introduced in D3.1 states that equipment "shall conform to the applicable requirements of Annex J". It is not stated which requirements are applicable and which aren't. The possible interpretation that all requirements are applicable including J.1, would mean that equipment "shall withstand" electrical isolation tests such as 1500 V rms or 2250 V dc for 60 seconds.

These isolation tests are designed for devices with magnetic AC coupling, mainly BASE-T PHYs, and are unsuitable for backplane PHYs; Backplane PHYs can have DC coupled connections at least on their transmitter connection (AC coupling is either in the Rx connection or in the channel). With a 100 Ohm differential termination, such a test means the termination dissipates tens of kW, which is unthinkable. In addition, the requirement that "the resistance after the test shall be at least 2 M Ω , measured at 500 V dc" cannot be met even before the test, since the resistance in these interfaces is 100 Ohms. Even AC coupled interfaces (where they exist) are not designed to withstand these high voltages.

From the above I conclude that isolation requirements in J.1 are definitely inapplicable for these PHYs, which leaves only the safety requirements in J.2. The text in Draft 3.0 described this accurately and should not have been changed.

It is unclear to me what the phrase "(including isolation requirements)" in these clauses of the base document refers to, since the IEC 60950-1 is not publicly available. If it implied something like the content of J.1, then it is a mistake that should be corrected in this project.

Note that the copper cable PHYs (Clauses 54, 84, 92, 110, 136) all point to 14.7, which only includes the safety requirements in J.2, as appropriate. Also, the related Clause 128

SuggestedRemedy

Revert the text in 70.9.1, 71.9.1, 72.9.1, 84.10.1, 93.10.1, 94.5.1, 130.9.1, 83A.6.1, and 83B.3, to what Draft 2.0 has in these places: "shall conform to the general safety requirements as specified in J.2".

Response Response Status W

REJECT.

The CRG disagrees with the commenter. The deleted text includes a parathetical expression "including isolation requirements" which includes all sections of Annex J.

 Maytum, Michael
 Retired,Retired/Unemployed

 Comment Type
 TR
 Comment Status
 A

The following has been deleted

"c) An impulse test consisting of a 1500 V, 10/700 μ s waveform, applied 10 times, with a 60 s interval between pulses. The shape of the impulses shall be 10/700 μ s (10 μ s virtual front time, 700 μ s virtual time of half value), as defined in IEC 60950-1:2001 Annex N."

and replaced by

"This electrical isolation shall meet the isolation requirements as specified in J.1." However, electrical strength test c) in J.1 is 2.4 kV, 1.2/50, not 1.5 kV, 10/700 making a change to the original technical requirement.

SuggestedRemedy

Revert to the original 1.5 kV, 10/700 test while still referencing J.1. Suggested correction is

"This electrical isolation shall meet the isolation requirements as specified in J.1. with electrical strength test c) details being replaced by "An impulse test consisting of a 1500 V, 10/700 waveform, applied 10 times, with a 60 s interval between pulses. The shape of the impulses is 10/700 (10 μ s virtual front time, 700 μ s virtual time to half value), as defined in ITU-T Recommendation K.44."

Proposers note: Annex N states "The impulse test circuit for the 10/700 μ s (10 μ s virtual front time, 700 μ s virtual time to half value) impulse is that specified in ITU-T Recommendation K.17". K.17 has been withdrawn, but its 10/700 content has been incorporated into ITU-T Recommendation K.44.

Response Response Status C ACCEPT IN PRINCIPLE.

Duplicate of comment R1-6 The resolution of comment R1-6 is "ACCEPT."

Pa **112** Li **26**

C/O SCO	P 112	L 26	# R1-6	CIO SCO	P 120	L19	# R1-14
aytum, Michael	Retired, Retired,	/Unemployed		Maytum, Michael	Retired, Retire	d/Unemployed	
omment Type TR	Comment Status A			Comment Type TR	Comment Status D		
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	en pulses. The shape of the impl			SuggestedRemedy			
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and replaced by	tion shall most the inclution requi	amanta an anaa	ified in 14 "	following electrical st	rength tests:		
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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: Page, Line Pa **120** Li **31** Page 5 of 7 10/1/2020 10:34:38 PM

	<u> </u>	Diag	1.04	# 54.45		SC 0	Diag	107	# 54.40
CI 0	SC O	P 120	L 31	# R1-15	C/ 0	•	P 120	L 37	# R1-16
Maytum,		Retired, Retired	d/Unemployed		Maytum,			d/Unemployed	
Commen	t Type TR	Comment Status A			Commen	t Type TR	Comment Status D		
Incor	rect				This	text mixes isolati	ion and insulation, which are te	echnically not the	e same thing.
Reco	mmendation ITU	-1:2018T K.44.					ure of the isolation barrier or in n barrier or insulation breakdov		
Suggeste	edRemedy						as a result of the application of		
Corre	ect to				an u		her; that is, the isolation barrier		
ITU-	F Recommendation	on K.44				edRemedy			
Respons	е	Response Status C			00	,	t, which refers to insulation.		
ACC	EPT IN PRINCIP	LE.			ie-ini	state original text			
					Ther	e shall be no ins	sulation breakdown during the t	est. Insulation b	reakdown is considered
Dunli	icate of R1-9						n the current that flows as a re		
Dupi						ge, rapidly increa	ases in an uncontrolled manne	r; that is, the ins	ulation does not restrict
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"ACC	CEPT"				REJI	,	Response Status Z		
CI J	SC J.1	P 120	L 34	# R1-2	REJI				
Zimmerm	nan, George	CME Consulti	ng Analog&nbsi	;Devices, Cisco,	This	comment was W	ITHDRAWN by the commenter	er.	
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