C/ 0 SC 0	Р	L	# I-11	C/ <b>FM</b>	SC FM		P <b>1</b>	L10	#	I-1
Maytum, Michael	Retired,Retir	ed/Unemployed		Grow, Rob	ert		RMG Cons	ulting		-
Comment Type <b>TR</b> Con	nment Status X			Comment	Туре Е	С	omment Status A			
There are various classes of ir functional, reinforced, solid or thereof is uniquely handled by	supplementary. Fund	ctional insulation a	nd the treatment	this co	uld now be		mendments and this led Amendment 10	is the only project	n SA ballot	. I believe
SuggestedRemedy				SuggestedRemedy						
Add functional insulation definition	tion from IEC 62368	2-1-2018					gning the number, ch nt number to p. 9, I. 3			
	functional insulation: insulation between conductive parts which is necessary only for the						esponse Status <b>C</b>			iont 10).
proper functioning of the equipment NOTE: In IEEE 802.3 isolation is synonymous to functional insulation				Response ACCE	PT.	Re				
Proposed Response Resp	oonse Status O			C/ FM	SC FM		P1	L <b>23</b>	#	I-2
				Grow, Rob	ert		RMG Cons	ulting		
C/0 SC 0	Р	L	# I-19	Comment	Туре Е	С	omment Status A			
								d with an		
lavtum, Michael	Retired Retir	ed/Unemploved						Though neither w		
	Retired,Retir	ed/Unemployed		amen	dment num	ber, the list	of previous amendm			
Comment Type TR Con	nment Status X		PHY receive circuitry	amene includ	dment numl es IEEE Sto	ber, the list	of previous amendm			
Comment Type TR Com IEEE 802.3cg, 146.3.5 PCS Lo shall be isolated from the netw	nment Status X popback, simply says rork medium". For Po	s "Additionally, the		ameno includ Suggesteo	dment numl es IEEE Sto IRemedy	ber, the list d 802.3ch-2	of previous amendm 20xx.	ents in approved	draft P802.3	3ca/D3.1
Comment Type TR Com IEEE 802.3cg, 146.3.5 PCS Lo shall be isolated from the netw 104.6.1 Isolation. Clause state	nment Status X popback, simply says ork medium". For Po s:	s "Additionally, the oDL, IEEE Std 802	2.3-2018 has clause	ameno includ Suggesteo Chang	dment numl es IEEE Sto <i>IRemedy</i> je "and IEE	ber, the list d 802.3ch-2 E Std 802.3	t of previous amendm 20xx. 3cm-2020." to "IEEE	ents in approved	draft P802.3	3ca/D3.1
Comment Type TR Com IEEE 802.3cg, 146.3.5 PCS Lo shall be isolated from the netw 104.6.1 Isolation. Clause state "In order to prevent the format	nment Status X popback, simply says ork medium". For Po s: ion of a ground loop,	s "Additionally, the bDL, IEEE Std 802 , a PD shall provide	2.3-2018 has clause e at least 1 MΩ DC	ameno includ Suggesteo Chang 20xx,	dment numl les IEEE Sto <i>IRemedy</i> le "and IEE and IEEE S	ber, the list d 802.3ch-2 E Std 802.3 td 802.3ca	t of previous amendm 20xx. 3cm-2020." to "IEEE h-20xx."	ents in approved	draft P802.3	3ca/D3.1
IEEE 802.3cg, 146.3.5 PCS Lo shall be isolated from the netw 104.6.1 Isolation. Clause state "In order to prevent the format isolation between all accessibl all MDI leads, when measured	nment Status X popback, simply says ork medium". For Po s: on of a ground loop, e external conductor using at least a 5V	s "Additionally, the oDL, IEEE Std 802 , a PD shall provide rs, including frame source voltage. An	2.3-2018 has clause e at least 1 MΩ DC ground (if any), and by equipment that can	amene includ Suggestee Chang 20xx, Response	dment numl les IEEE Sto <i>IRemedy</i> le "and IEE and IEEE S	ber, the list d 802.3ch-2 E Std 802.3 td 802.3ca <i>Re</i>	t of previous amendm 20xx. 3cm-2020." to "IEEE	ents in approved	draft P802.3	3ca/D3.1
Comment Type TR Com IEEE 802.3cg, 146.3.5 PCS Lo shall be isolated from the netw 104.6.1 Isolation. Clause state "In order to prevent the format isolation between all accessibl	nment Status X popback, simply says fork medium". For Po s: ion of a ground loop, e external conductor using at least a 5V a non-MDI connector all accessible exter	s "Additionally, the oDL, IEEE Std 802 , a PD shall provide rs, including frame source voltage. An or that is not isolate rnal conductors, inc	2.3-2018 has clause e at least 1 MΩ DC ground (if any), and by equipment that can ed from the MDI leads cluding frame ground	amene includ Suggester Chang 20xx, Response ACCE Chang	Iment numl es IEEE Sto I <i>Remedy</i> je "and IEE and IEEE S PT IN PRIN	ber, the list d 802.3ch-2 E Std 802.3ca Re NCIPLE. E Std 802.3	t of previous amendm 20xx. 3cm-2020." to "IEEE -20xx." esponse Status <b>C</b> 3cm-2020." to "IEEE	Std 802.3cm-2020	draft P802.3	3ca/D3.1 802.3ch-
Comment Type TR Com IEEE 802.3cg, 146.3.5 PCS Lo shall be isolated from the netw 104.6.1 Isolation. Clause state "In order to prevent the format isolation between all accessibl all MDI leads, when measured be connected to a PD through must provide isolation between (if any), and the non-MDI conn PD." For IEEE 802.3cg 10BASE-T1	nment Status X popback, simply says ork medium". For Po s: ion of a ground loop, e external conductor using at least a 5V a non-MDI connector all accessible exter ector, so as not to n L can run up to 1 km	s "Additionally, the oDL, IEEE Std 802 , a PD shall provide rs, including frame source voltage. An or that is not isolate rnal conductors, inc egate the DC isola n and is highly like!	2.3-2018 has clause e at least 1 MΩ DC ground (if any), and y equipment that can ed from the MDI leads cluding frame ground titon provided by the ly to pick up transient	amene includ Suggester Chang 20xx, Response ACCE Chang	Iment numl es IEEE Sto IRemedy le "and IEE and IEEE S PT IN PRIN le "and IEE	ber, the list d 802.3ch-2 E Std 802.3ca Re NCIPLE. E Std 802.3	t of previous amendm 20xx. 3cm-2020." to "IEEE -20xx." esponse Status <b>C</b> 3cm-2020." to "IEEE	Std 802.3cm-2020	), IEEE Std	3ca/D3.1 802.3ch-
Comment Type TR Com IEEE 802.3cg, 146.3.5 PCS Lo shall be isolated from the netw 104.6.1 Isolation. Clause state "In order to prevent the format isolation between all accessibl all MDI leads, when measured be connected to a PD through must provide isolation between (if any), and the non-MDI conn PD." For IEEE 802.3cg 10BASE-T1 voltages of many kV. Further t This makes the 5 V insulation	nment Status X popback, simply say ork medium". For Po s: ion of a ground loop, e external conductor using at least a 5V a non-MDI connecto n all accessible exter ector, so as not to n L can run up to 1 km he PSE may be eart resistance measure	s "Additionally, the oDL, IEEE Std 802 rs, including frame source voltage. An or that is not isolate rnal conductors, inc egate the DC isola n and is highly likely thed with powering ment inadequate an	2.3-2018 has clause e at least 1 MΩ DC ground (if any), and y equipment that can ed from the MDI leads cluding frame ground tion provided by the y to pick up transient voltages up to $\pm$ 60 V. nd it is more	amene includ Suggester Chang 20xx, Response ACCE Chang 2020,	Iment numl es IEEE Sto IRemedy le "and IEE and IEEE S PT IN PRIN le "and IEE and IEEE S SC FM	ber, the list d 802.3ch-2 E Std 802.3ca Re NCIPLE. E Std 802.3	a of previous amendm 20xx. 3cm-2020." to "IEEE -20xx." esponse Status C 3cm-2020." to "IEEE a-2020."	Std 802.3cm-2020 Std 802.3cm-2020	), IEEE Std	3ca/D3.1 802.3ch- 802.3ch-
Comment Type TR Com IEEE 802.3cg, 146.3.5 PCS Lo shall be isolated from the netw 104.6.1 Isolation. Clause state "In order to prevent the format isolation between all accessibl all MDI leads, when measured be connected to a PD through must provide isolation between (if any), and the non-MDI conn PD." For IEEE 802.3cg 10BASE-T1 voltages of many kV. Further t	nment Status X popback, simply say ork medium". For Po s: ion of a ground loop, e external conductor using at least a 5V a non-MDI connecto n all accessible exter ector, so as not to n L can run up to 1 km he PSE may be eart resistance measure	s "Additionally, the oDL, IEEE Std 802 rs, including frame source voltage. An or that is not isolate rnal conductors, inc egate the DC isola n and is highly likely thed with powering ment inadequate an	2.3-2018 has clause e at least 1 MΩ DC ground (if any), and y equipment that can ed from the MDI leads cluding frame ground tion provided by the y to pick up transient voltages up to $\pm$ 60 V. nd it is more	amene includ Suggested 20xx, Response ACCE Chang 2020, C/ FM	Iment numl es IEEE Sto <i>Remedy</i> le "and IEE and IEEE S PT IN PRIN le "and IEE and IEEE S SC <b>FM</b> eter	ber, the list d 802.3ch-2 E Std 802.3ca <i>Re</i> NCIPLE. E Std 802.3ca	t of previous amendm 20xx. 3cm-2020." to "IEEE -20xx." esponse Status C 3cm-2020." to "IEEE a-2020."	Std 802.3cm-2020 Std 802.3cm-2020	), IEEE Std	3ca/D3.1 802.3ch- 802.3ch-
Comment Type TR Com IEEE 802.3cg, 146.3.5 PCS Lo shall be isolated from the netw 104.6.1 Isolation. Clause state "In order to prevent the format isolation between all accessibl all MDI leads, when measured be connected to a PD through must provide isolation between (if any), and the non-MDI conn PD." For IEEE 802.3cg 10BASE-T1 voltages of many kV. Further t This makes the 5 V insulation appropriate to use the standar	nment Status X popback, simply say ork medium". For Po s: ion of a ground loop, e external conductor using at least a 5V a non-MDI connecto n all accessible exter ector, so as not to n L can run up to 1 km he PSE may be eart resistance measure	s "Additionally, the oDL, IEEE Std 802 rs, including frame source voltage. An or that is not isolate rnal conductors, inc egate the DC isola n and is highly likely thed with powering ment inadequate an	2.3-2018 has clause e at least 1 MΩ DC ground (if any), and y equipment that can ed from the MDI leads cluding frame ground tion provided by the y to pick up transient voltages up to $\pm$ 60 V. nd it is more	amene includ Suggested Chang 20xx, Response ACCE Chang 2020, C/ FM Anslow, P Comment	Iment numl es IEEE Sto <i>Remedy</i> le "and IEE and IEEE S PT IN PRIN le "and IEE SC FM eter <i>Type</i> E	ber, the list d 802.3ch-2 E Std 802.3ca Re NCIPLE. E Std 802.3ca Std 802.3ca C	t of previous amendm 20xx. 3cm-2020." to "IEEE -20xx." esponse Status C 3cm-2020." to "IEEE a-2020." P1 Self	Std 802.3cm-2020 Std 802.3cm-2020	), IEEE Std	3ca/D3.1 802.3ch- 802.3ch-
Comment Type TR Com IEEE 802.3cg, 146.3.5 PCS Lo shall be isolated from the netw 104.6.1 Isolation. Clause state "In order to prevent the format isolation between all accessibl all MDI leads, when measured be connected to a PD through must provide isolation between (if any), and the non-MDI conn PD." For IEEE 802.3cg 10BASE-T1 voltages of many kV. Further t This makes the 5 V insulation appropriate to use the standar SuggestedRemedy For IEEE 802.3 clause 104.6.1	nment Status X popback, simply says fork medium". For Po s: ion of a ground loop, e external conductor using at least a 5V a non-MDI connector all accessible exter ector, so as not to n L can run up to 1 km he PSE may be eart resistance measured d 2-pair and 4 pair is	s "Additionally, the oDL, IEEE Std 802 , a PD shall provide rs, including frame source voltage. An or that is not isolate rnal conductors, inc egate the DC isola h and is highly likel thed with powering ment inadequate a solation requiremen	2.3-2018 has clause e at least 1 MΩ DC ground (if any), and y equipment that can ed from the MDI leads cluding frame ground tion provided by the y to pick up transient voltages up to $\pm$ 60 V. nd it is more	amene includ Suggester 20xx, Response ACCE Chang 2020, C/ FM Anslow, P Comment There	dment numl es IEEE Sto <i>Remedy</i> le "and IEE and IEEE S PT IN PRIN le "and IEEE S SC FM eter <i>Type</i> E are now 9 a	ber, the list d 802.3ch-2 E Std 802.3ca Re NCIPLE. E Std 802.3ca Std 802.3ca C	t of previous amendm 20xx. 3cm-2020." to "IEEE -20xx." esponse Status C 3cm-2020." to "IEEE a-2020." P1 Self comment Status A	Std 802.3cm-2020 Std 802.3cm-2020	), IEEE Std	3ca/D3.1 802.3ch- 802.3ch-
Comment Type TR Com- IEEE 802.3cg, 146.3.5 PCS Ld shall be isolated from the netw 104.6.1 Isolation. Clause state "In order to prevent the format isolation between all accessibl all MDI leads, when measured be connected to a PD through must provide isolation between (if any), and the non-MDI com PD." For IEEE 802.3cg 10BASE-T1 voltages of many kV. Further t This makes the 5 V insulation appropriate to use the standar SuggestedRemedy For IEEE 802.3 clause 104.6." "The electrical isolation of 10B	nment Status X popback, simply say ork medium". For Po s: ion of a ground loop, e external conductor using at least a 5V a non-MDI connecto a la accessible exter ector, so as not to n L can run up to 1 km he PSE may be eart resistance measurer d 2-pair and 4 pair is I Isolation add. ASE-T1L PDs shall	s "Additionally, the oDL, IEEE Std 802 , a PD shall provide rs, including frame source voltage. An or that is not isolate rnal conductors, inc egate the DC isola h and is highly likel thed with powering ment inadequate a solation requiremen	2.3-2018 has clause e at least 1 MΩ DC ground (if any), and y equipment that can ed from the MDI leads cluding frame ground tion provided by the y to pick up transient voltages up to $\pm$ 60 V. nd it is more	amene includ Suggested Chang 20xx, Response ACCE Chang 2020, C/ FM Anslow, P Comment There Suggested	dment numl es IEEE Sto <i>Remedy</i> le "and IEE and IEEE S PT IN PRIN le "and IEEE S SC FM eter Type E are now 9 a <i>IRemedy</i>	ber, the list d 802.3ch-2 E Std 802.3ca <i>Re</i> NCIPLE. E Std 802.3ca Std 802.3ca <i>C</i> approved a	t of previous amendm 20xx. 3cm-2020." to "IEEE -20xx." esponse Status C 3cm-2020." to "IEEE a-2020." P1 Self comment Status A amendments.	Std 802.3cm-2020 Std 802.3cm-2020 <i>L</i> 23	draft P802.3 ), IEEE Std ), IEEE Std # [	802.3ch- 802.3ch-
Comment Type TR Com IEEE 802.3cg, 146.3.5 PCS Le shall be isolated from the netw 104.6.1 Isolation. Clause state "In order to prevent the format isolation between all accessibl all MDI leads, when measured be connected to a PD through must provide isolation between (if any), and the non-MDI com PD." For IEEE 802.3cg 10BASE-T1 voltages of many kV. Further t This makes the 5 V insulation appropriate to use the standar SuggestedRemedy For IEEE 802.3 clause 104.6." "The electrical isolation of 10B	nment Status X popback, simply says fork medium". For Po s: ion of a ground loop, e external conductor using at least a 5V a non-MDI connector all accessible exter ector, so as not to n L can run up to 1 km he PSE may be eart resistance measured d 2-pair and 4 pair is	s "Additionally, the oDL, IEEE Std 802 , a PD shall provide rs, including frame source voltage. An or that is not isolate rnal conductors, inc egate the DC isola h and is highly likel thed with powering ment inadequate a solation requiremen	2.3-2018 has clause e at least 1 MΩ DC ground (if any), and y equipment that can ed from the MDI leads cluding frame ground tion provided by the y to pick up transient voltages up to $\pm$ 60 V. nd it is more	amene includ Suggester 20xx, Response ACCE Chang 2020, C/ FM Anslow, P Comment There Suggester Chang	dment numl es IEEE Sto <i>Remedy</i> le "and IEE and IEEE S PT IN PRIN le "and IEEE S SC FM eter Type E are now 9 a <i>IRemedy</i>	ber, the list d 802.3ch-2 E Std 802.3ca Re NCIPLE. E Std 802.3ca Std 802.3ca C approved a E Std 802.	t of previous amendm 20xx. 3cm-2020." to "IEEE -20xx." esponse Status C 3cm-2020." to "IEEE a-2020." P1 Self comment Status A amendments. 3cm-2020." to "IEEE	Std 802.3cm-2020 Std 802.3cm-2020 <i>L</i> 23	draft P802.3 ), IEEE Std ), IEEE Std # [	802.3ch- 802.3ch-
Comment Type TR Com IEEE 802.3cg, 146.3.5 PCS Le shall be isolated from the netw 104.6.1 Isolation. Clause state "In order to prevent the format isolation between all accessibl all MDI leads, when measured be connected to a PD through must provide isolation between (if any), and the non-MDI com PD." For IEEE 802.3cg 10BASE-T1 voltages of many kV. Further t This makes the 5 V insulation appropriate to use the standar SuggestedRemedy For IEEE 802.3 clause 104.6." "The electrical isolation of 10B	nment Status X popback, simply say ork medium". For Po s: ion of a ground loop, e external conductor using at least a 5V a non-MDI connecto a la accessible exter ector, so as not to n L can run up to 1 km he PSE may be eart resistance measurer d 2-pair and 4 pair is I Isolation add. ASE-T1L PDs shall	s "Additionally, the oDL, IEEE Std 802 , a PD shall provide rs, including frame source voltage. An or that is not isolate rnal conductors, inc egate the DC isola h and is highly likel thed with powering ment inadequate a solation requiremen	2.3-2018 has clause e at least 1 MΩ DC ground (if any), and y equipment that can ed from the MDI leads cluding frame ground tion provided by the y to pick up transient voltages up to $\pm$ 60 V. nd it is more	amene includ Suggester 20xx, Response ACCE Chang 2020, C/ FM Anslow, P Comment There Suggester Chang	Iment numl es IEEE Sta <i>Remedy</i> le "and IEE and IEEE S PT IN PRIN le "and IEE SC FM eter <i>Type</i> E are now 9 a <i>IRemedy</i> le "and IEE and IEE	ber, the list d 802.3ch-2 E Std 802.3ca Re NCIPLE. E Std 802.3ca Std 802.3ca C approved a E Std 802.3ca	t of previous amendm 20xx. 3cm-2020." to "IEEE -20xx." esponse Status C 3cm-2020." to "IEEE a-2020." P1 Self comment Status A amendments. 3cm-2020." to "IEEE	Std 802.3cm-2020 Std 802.3cm-2020 <i>L</i> 23	draft P802.3 ), IEEE Std ), IEEE Std # [	802.3ch- 802.3ch-

Pa **1** Li **23** 

CI 0 S	SC 0	P <b>2</b>	L <b>4</b>	# I-10	C/ FM	SC FM	P11	L19	# <mark>I-21</mark>	
Maytum, Micha	ael	Retired,Reti	red/Unemployed	-	Wienckow	ski, Natalie	General Moto	rs Company	-	
Comment Type	e <b>TR</b> Comme	nt Status 🗙			Comment	Туре Е	Comment Status A			
	Ethernet; IEC 60950; IE				802.30	h was approve	d by the standards board.			
	-1:2018 only uses isolat t device and Touch curre				Suggested	Remedy				
	f series capacitors). IEC				Chang	e 20xx to 2020				
IEEE 802.3	3 term "isolation".				Response		Response Status <b>C</b>			
SuggestedRen	nedy				ACCE					
Add the ter	rm "functional insulation"	" to key words								
Proposed Res	ponse Respons	e Status <b>O</b>			C/ <b>FM</b>	SC FM	P11	L <b>21</b>	# I-20	
				Wienckow	ski, Natalie	General Moto	rs Company			
		-			Comment	Туре Е	Comment Status A			
C/FM S	SC FM	P <b>7</b>	L <b>7</b>	# I-3	Chang	e to match upo	late made to ch description for	publication.		
Grow, Robert		RMG Consu	ılting		Suggested	IRemedy				
Comment Type		nt Status A		EZ	Change: Clause 149 and Annex 149A					
The WG p	eople that voted is now l	known.			To: C	lause 149, Ann	ex 149A			
SuggestedRen	nedy				Response		Response Status C			
Please fill i	in the 802.3 list of those	that voted.			ACCE	PT.				
Response	Respons	e Status C			C/ FM	SC FM	P11	L <b>26</b>	# 1-22	
ACCEPT I	N PRINCIPLE.								" 122	
<b>Bopulato</b> y	vith Working Group mem	bara an dataila	d in the remodul for	a a mant L E	Wienckow	ski, Natalle <i>Tvpe</i> <b>E</b>	General Moto Comment Status A	rs Company		
	dy for comment I-5 is "Po					514	d by the standards board.			
C/ FM S	SC FM	P <b>7</b>	L15	# I-5	Suggested	lRemedy				
Anslow, Peter		Self			Chang	e 20xx to 2020				
Comment Type	e E Comme	nt Status A			Response		Response Status C			
Please pop	pulate the list of Working	gGroup ballot m	nembers.		ACCE	PT.				
SuggestedRen	nedv									
	he list of Working Group	ballot members	5.							
Response	0 1	e Status C								
ACCEPT.	Nespons									
AUGLI-T.										

Pa **11** Li **26** 

C/ 1	SC 1.3	P <b>23</b>	L <b>34</b>	# 1-23	C/ 14	SC 14.3.1.1	P <b>30</b>	L10	# <mark>I-25</mark>
Viencko	wski, Natalie	General Motors	s Company		Wienckow	wski, Natalie	General Motor	s Company	-
Commer	nt Type E	Comment Status A			Comment	t Type E	Comment Status A		
-		d in IEEE802.3-2018.			802.3 802.3		ent text than that quoted in this	draft. It has the	e text as modified by
00	edRemedy					dRemedy			
		3 and all content or change the ded this reference.	editing instruct	ion if an ammendment	Chan	ige editor's instru	ction to: Change text in 14.3.1	.1 (as modified	by IEEE Std 802.3bt-
Respons	e	Response Status C				) as follows:			
ACC	EPT IN PRINCIP	_E.			Response ACCI		Response Status C		
Chai "Cha		for IEC 62368-1 as follows:"			CI 27	SC 27.5.1	P <b>37</b>	L11	# I-26
to: Chai	to: Change the reference for IEC 62368-1 (as inserted by IEEE Std 802.3cg-2019) as follows:"				Wienckow Comment	wski, Natalie <i>t Type</i> <b>E</b>	General Motor Comment Status A	s Company	
C/ 8	SC 8.7.1	P <b>24</b>	L <b>40</b>	# I-24	A nev	w note is being a	ded. There is no existing note	e to change.	
Commer	wski, Natalie <i>ht Type</i> <b>E</b> 3-2018 has differe	General Motors Comment Status A ent text than that quoted in this			Repla	edRemedy ace "Change" with being shown is the	n "Insert". Also, remove under e text to insert.	rlining as it is not	t needed as the only
Cha	edRemedy nge: All Physical All stations	Layer MDI			Response ACCI		Response Status C		
Respons		Response Status <b>C</b>			CI 33	SC 33.7.1	P <b>39</b>	L <b>39</b>	# I-27
•	EPT IN PRINCIP	-			Wienckow Comment	wski, Natalie <i>t Type</i> <b>E</b>	General Motor Comment Status A	rs Company	
		ayer MDI meeting this standar				Ill new text is und			
		s strikethrough text and <all ph<="" td=""><td></td><td></td><td>00</td><td>edRemedy erline "the general</td><td>safety requirements as specif</td><td>fied in J.2 or"</td><td></td></all>			00	edRemedy erline "the general	safety requirements as specif	fied in J.2 or"	
;/ <b>0</b>	SC O	P <b>25</b>	L13	# I-12	Response	e	Response Status C		
-	Michael	Retired,Retired	/Unemployed		ACCI				
	nt Type TR	Comment Status X			,				
"Isol	ation impedance b	petween", but J1 doesn't mentio	on impedance						
00	edRemedy te "impedance"								
Pronose	d Response	Response Status 0							

Proposed Response Response Status **O** 

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 **39** Li **39** 

C/ 33 SC 33.8.3	.4 P40	L10	# I-28	Cl	40	SC 40.12.7	P <b>45</b>	L <b>8</b>	# I-31
Wienckowski, Natalie <i>Comment Type</i> <b>E</b> Editor's note needs	General Moto Comment Status A to include instruction to renuml	ors Company per the remaining	items in the table.		ienckowsk o <i>mment T</i> y Editor's	rpe E	General Moto Comment Status A include instruction to renumbe		items in the table.
SuggestedRemedy Update editor's instr EL13.	ruction to add "and renumber it	ems EL6 through	EL19 to EL3 through	Su	<i>iggestedR</i> Update through	editor's instruc	tion to add "and renumber iter	ms PME6 throug	gh PME64 to PME3
Response ACCEPT.	Response Status C			Re	esponse ACCEP	г.	Response Status C		
C/ 38 SC 38.7.1	P <b>42</b>	L12	# <u>1-29</u>	Cl	55	SC 55.5.1	P <b>52</b>	L <b>9</b>	# [-32
Wienckowski, Natalie Comment Type E Not all new text is ur	Comment Status A	ors Company			ienckowsk o <i>mment T</i> y Referen	rpe E	General Moto <i>Comment Status</i> <b>A</b> nent should be in parenthesis.		
SuggestedRemedy Underline "subject to	o this clause".			Su	<i>iggestedR</i> Put this	•	esis: as modified by IEEE Sto	l 802.3bt-2018.	
Response ACCEPT.	Response Status C			Re	esponse ACCEP	г.	Response Status C		
C/ 38 SC 38.12.	4.1 P43	L13	# <u>I-30</u>	Cl	55	SC 55.9.1	P <b>52</b>	L <b>33</b>	# <mark>I-33</mark>
Wienckowski, Natalie <i>Comment Type</i> <b>E</b> OR30 is in subclaus	General Mot <i>Comment Status</i> <b>A</b> se 38.12.4.5. The title used in t	ors Company he draft is for 38.′	12.4.5.		ienckowsk o <i>mment T</i> y Not all n		General Moto <i>Comment Status</i> <b>A</b> erlined.	rs Company	
SuggestedRemedy Change 38.12.4.1 to	0 38.12.4.5.			Su	<i>iggestedR</i> Underlin		ral safety requirements as spe	ecified in"	
Response ACCEPT IN PRINC	Response Status <b>C</b> IPLE.			Re	esponse ACCEP	г.	Response Status C		
Change 38.12.4.1 to	38.12.4.5 in title and editors ir	nstruction.		Cl	55	SC 55.12.6	P53	L <b>7</b>	# I-34
					ienckowsk o <i>mment T</i> y Editor's	pe E	General Moto Comment Status A include instruction to renumbe		items in the table.
				Su	<i>iggestedR</i> Add at tl accordin	ne end of the e	editor's instruction "and renum	ber all of the ite	ms in the table
				Re	esponse ACCEP		Response Status C		
	uired ER/editorial required GR /dispatched A/accepted R/reje ine					U/unsatisfied	Pa <b>53</b> Z/withdrawn Li <b>7</b>		Page 4 of 9 7/16/2020 10:37

C/ 70 SC 70.9.1	P <b>60</b>	L11	# I-35	C/ 84	SC 84.10.1	P <b>67</b>	L11	# <mark>I-38</mark>
Vienckowski, Natalie	General Motor	rs Company		Wienckow	vski, Natalie	General Moto	ors Company	-
Comment Type T	Comment Status X			Comment	Туре Т	Comment Status X		
Add reference to J.1 a requirements".	as well since the original text in	cluded "including	g isolation		eference to J.1 a ements".	s well since the original text i	ncluded "includir	ng isolation
SuggestedRemedy				Suggeste	dRemedy			
Add the following text Add change PICS ES	after "conform to the": isolate 1 to match.	requirements as	specified in J.1 and		he following text hange PICS ES	after "conform to the": isolatic I to match.	on requirements	as specified in J.1 an
Proposed Response	Response Status O			Proposed	Response	Response Status O		
71 SC 71.9.1	P61	L11	# 1-36	C/ 93	SC 93.10.1	P <b>77</b>	L11	# <mark>I-39</mark>
/ienckowski, Natalie	General Motor	rs Company		Wienckow	vski, Natalie	General Moto	ors Company	
omment Type T	Comment Status X			Comment	Туре Т	Comment Status X		
Add reference to J.1 a requirements".	as well since the original text in	cluded "including	g isolation		eference to J.1 a ements".	s well since the original text i	ncluded "includir	ng isolation
SuggestedRemedy				Suggeste	dRemedy			
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Proposed Response	Response Status O			Proposed	Response	Response Status O		
72 SC 72.9.1	P63	L11	# 1-37	C/ 94	SC 94.5.1	P <b>79</b>	L11	# <mark>I-40</mark>
/ienckowski, Natalie	General Motor	rs Company		Wienckow	vski, Natalie	General Moto	ors Company	
omment Type T	Comment Status X			Comment	Туре Т	Comment Status X		
Add reference to J.1 a requirements".	as well since the original text in	cluded "including	g isolation		eference to J.1 a rements".	s well since the original text i	ncluded "includir	ng isolation
uggestedRemedy				Suggeste	dRemedy			
Add the following text Add change PICS ES	after "conform to the": isolate 1 to match.	requirements as	specified in J.1 and		he following text hange PICS ES	after "conform to the": isolatio	on requirements	as specified in J.1 an

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

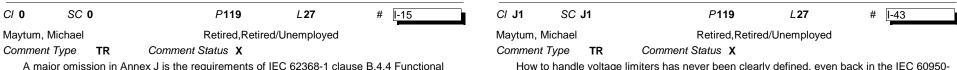
Pa **79** Li 11 Page 5 of 9 7/16/2020 10:37:30 AM

C/ 138	SC 138	P103	L <b>1</b>	# I-6	C/ 141	SC 141	P109	L1	# I-9
Anslow, Pet		Self		" <u>1</u> 9	Anslow, P		Self		
Comment T		Comment Status A			Comment		Comment Status A		
Clause 802.3cr	138 was addeo n-2019, but nor	d by IEEE Std 802.3cd-2018. ne of the changes made affec	the changes be	eing made here. Cla	"Claus	21	ed by IEEE P802.3ca" should b	e "Clause 141 w	vas added by IEEE S
		d by IEEE Std 802.3cm-2020,	which changed	the title of the claus	Suggestee	lRemedy			
	op of Page 103	3 change "Clause 138 was ad				je "Clause 141 2.3ca-2020"	was added by IEEE P802.3ca"	to "Clause 141 v	was added by IEEE
2020" (	Change the title	ed by IEEE Std 802.3cd-2018 e of Clause 138 and the titles E Std 802.3cm-2020.			Response ACCE		Response Status C		
Response		Response Status C			C/ Annex	J SC ex J	P119	L16	# I-44
ACCEP	РТ.				Wiese, Ja	mes	ADTRAN Inc.		
C/ 139	SC 139	P105	L1	# 1-7	Comment		Comment Status X		
Anslow, Pet		Self Comment Status A			-	P802d3cr_Jim_ attached ***	_Wiese_comment.pdf;IEEE_P8	02d3cr_Jim_Wi	ese_suggested_cha
Clause	139 was added	d by IEEE Std 802.3cd-2018.		modified by IEEE S			document <ieee_p802d3cr_li< td=""><td>m Wiese comm</td><td>ent odf&gt; for rational</td></ieee_p802d3cr_li<>	m Wiese comm	ent odf> for rational
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Clause 802.3cr SuggestedF At the to "Clause 2019" C change	139 was added n-2019, which o Remedy op of Page 105 a 139 was adde Change the title	changed the title of the clause 5 change "Clause 139 was ad ed by IEEE Std 802.3cd-2018 e of Clause 139 and the titles of E Std 802.3cn-2019.	ded by IEEE Sto and changed by	802.3cn-2019" to IEEE Std 802.3cn-	Pleas Suggester Pleas sugge	e see attached <i>IRemedy</i> e see attached sted change.	document <ieee_p802d3cr_ji< td=""><td></td><td>·</td></ieee_p802d3cr_ji<>		·
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802.3cr SuggestedF At the to "Clause 2019" C change Response ACCEP Cl 140 Anslow, Pet Comment T Clause 802.3cr SuggestedF	139 was addeo n-2019, which of Remedy op of Page 105 a 139 was adde Change the title is made by IEE PT. SC 140 ter Type E 140 was addeo n-2019, but nor Remedy	changed the title of the clause 5 change "Clause 139 was ad ed by IEEE Std 802.3cd-2018 e of Clause 139 and the titles of E Std 802.3cn-2019. <i>Response Status</i> <b>C</b>	ded by IEEE Sto and changed by of 139.11 and 13 <i>L</i> 1 Clause 140 was the changes be	# 802.3cn-2019" to IEEE Std 802.3cn- 39.11.4 to reflect the # 1-8 modified by IEEE S sing made here.	Please Suggested Please sugge Proposed Cl 0 Maytum, N Comment "a)150 1:2011 voltag with a 1:202	e see attached <i>Remedy</i> e see attached sted change. <i>Response</i> SC 0 flichael <i>Type</i> T 0 V rms at 50 H 3." is not match 3 states basic ir e from Table 25 2500 V peak A 0, Insulation coo	document <ieee_p802d3cr_jir Response Status <b>O</b> P119 Retired,Retired Comment Status <b>X</b> Iz to 60 Hz, applied as specified ing the IEC 62368-1:2018 requi isulation is subjected to Table 1 5, 26 or 27, impulse values whic C or DC voltage. IEC 62368-1:2 ordination for equipment within</ieee_p802d3cr_jir 	L18 L18 Unemployed d in Section 5.4.9 rement. Section 12 impulse value h, for 230 V mai 2018 totally ignou low-voltage supp	# [- <u>16</u> # [ <u>-16</u> 
Clause 802.3cr SuggestedF At the to "Clause 2019" C change Response ACCEP Cl 140 Anslow, Pel Comment T Clause 802.3cr SuggestedF At the to "Clause	139 was added n-2019, which of Remedy op of Page 105 a 139 was adde Change the title is made by IEE PT. SC 140 ter Type E 140 was added n-2019, but nor Remedy op of Page 107	changed the title of the clause 5 change "Clause 139 was ad ed by IEEE Std 802.3cd-2018 of Clause 139 and the titles of E Std 802.3cn-2019. <i>Response Status</i> <b>C</b> <i>P</i> 107 Self <i>Comment Status</i> <b>A</b> d by IEEE Std 802.3cd-2018. ne of the changes made affect 7 change "Clause 140 was ad ed by IEEE Std 802.3cd-2018	ded by IEEE Sto and changed by of 139.11 and 13 <i>L</i> 1 Clause 140 was the changes be ded by IEEE Sto	# 802.3cn-2019" to IEEE Std 802.3cn- 39.11.4 to reflect the # 1-8 modified by IEEE S sing made here.	Please Suggestea Please sugge Proposed C/ 0 Maytum, N Comment "a)150 1:2011 voltag with a 1:2022 Princi	e see attached <i>Remedy</i> e see attached sted change. <i>Response</i> <i>SC</i> 0 flichael <i>Type</i> T 0 V rms at 50 H 3." is not match 3 states basic ir e from Table 25 2500 V peak A 0, Insulation coo bles, requireme	document <ieee_p802d3cr_jin Response Status O P119 Retired,Retired Comment Status X Iz to 60 Hz, applied as specified ing the IEC 62368-1:2018 requi isulation is subjected to Table 1 5, 26 or 27, impulse values whic C or DC voltage. IEC 62368-1:2</ieee_p802d3cr_jin 	L18 L18 Unemployed d in Section 5.4.9 rement. Section 2 impulse value th, for 230 V mai 2018 totally ignor low-voltage supp that an impulse	# [- <u>16</u> # [ <u>-16</u> 
Clause 802.3cr Suggestedf At the te "Clause 2019" C change Response ACCEP Cl <b>140</b> anslow, Pet Comment T Clause 802.3cr Suggestedf At the te "Clause Response	139 was added n-2019, which of Remedy op of Page 105 a 139 was adde Change the title s made by IEE PT. SC 140 ter Type E 140 was added n-2019, but nor Remedy op of Page 107 a 140 was added	changed the title of the clause 5 change "Clause 139 was ad ed by IEEE Std 802.3cd-2018 e of Clause 139 and the titles of E Std 802.3cn-2019. <i>Response Status</i> <b>C</b> <i>P</i> 107 Self <i>Comment Status</i> <b>A</b> d by IEEE Std 802.3cd-2018. he of the changes made affec 7 change "Clause 140 was ad	ded by IEEE Sto and changed by of 139.11 and 13 <i>L</i> 1 Clause 140 was the changes be ded by IEEE Sto	# 802.3cn-2019" to IEEE Std 802.3cn- 39.11.4 to reflect the # 1-8 modified by IEEE S sing made here.	Please Suggestea Please sugge Proposed C/ 0 Maytum, N Comment "a)150 1:2011 voltag with a 1:2022 Princi	e see attached <i>Remedy</i> e see attached sted change. <i>Response</i> SC 0 flichael <i>Type</i> T 0 V rms at 50 H 3. tates basic ir e from Table 25 2500 V peak A 0, Insulation coo- bles, requireme es, is most app	document <ieee_p802d3cr_jin Response Status <b>O</b> P119 Retired,Retired Comment Status <b>X</b> Az to 60 Hz, applied as specified ing the IEC 62368-1:2018 requi isulation is subjected to Table 1 is, 26 or 27, impulse values which C or DC voltage. IEC 62368-1:20 profination for equipment within ints and tests, recommendation</ieee_p802d3cr_jin 	L18 L18 Unemployed d in Section 5.4.9 rement. Section 2 impulse value th, for 230 V mai 2018 totally ignor low-voltage supp that an impulse	# [- <u>16</u> # [ <u>-16</u> 
Clause 802.3cr Suggestedf At the tr "Clause 2019" C change Response ACCEP Cl 140 Anslow, Pet Comment T Clause 802.3cr Suggestedf At the tr	139 was added n-2019, which of Remedy op of Page 105 a 139 was adde Change the title s made by IEE PT. SC 140 ter Type E 140 was added n-2019, but nor Remedy op of Page 107 a 140 was added	changed the title of the clause 5 change "Clause 139 was ad ed by IEEE Std 802.3cd-2018 of Clause 139 and the titles of E Std 802.3cn-2019. <i>Response Status</i> <b>C</b> <i>P</i> 107 Self <i>Comment Status</i> <b>A</b> d by IEEE Std 802.3cd-2018. ne of the changes made affect 7 change "Clause 140 was ad ed by IEEE Std 802.3cd-2018	ded by IEEE Sto and changed by of 139.11 and 13 <i>L</i> 1 Clause 140 was the changes be ded by IEEE Sto	# 802.3cn-2019" to IEEE Std 802.3cn- 39.11.4 to reflect the # 1-8 modified by IEEE S sing made here.	Please Suggester Please sugge Proposed Cl 0 Maytum, N Comment "a)150 1:201 1:201 1:201 Voltag with a 1:202 Princi voltag Suggester	e see attached <i>Remedy</i> e see attached sted change. <i>Response</i> SC 0 Michael <i>Type</i> <b>T</b> 0 V rms at 50 H 3." is not match 3 states basic ir e from Table 25 2500 V peak A 0, Insulation coo bles, requireme es, is most app <i>IRemedy</i>	document <ieee_p802d3cr_jin Response Status <b>O</b> P119 Retired,Retired Comment Status <b>X</b> Az to 60 Hz, applied as specified ing the IEC 62368-1:2018 requi isulation is subjected to Table 1 is, 26 or 27, impulse values which C or DC voltage. IEC 62368-1:20 profination for equipment within ints and tests, recommendation</ieee_p802d3cr_jin 	M_Wiese_sugge L18 d/Unemployed d in Section 5.4.5 rement. Section 12 impulse value th, for 230 V mai 2018 totally ignor low-voltage supp that an impulse ed transients.	# 1-16 # 1-16 9.1 of IEC 62368- 5.4.9.1 of IEC 6236 s and the highest ter ns, IEC 62368-1 tes rs the IEC 60664- oly systems - Part 1: voltage, not AC or E

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa <b>119</b>	Page 6 of 9
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 18	7/16/2020 10:37:31 AM
SORT ORDER: Page, Line		

C/ 0 SC 0	P119	L19	# 1-17	C/ 0	SC 0	P119	L <b>21</b>	# 1-14
Maytum, Michael	Retired, Retire	d/Unemployed		Maytum,	Michael	Retired, Retire	d/Unemployed	
Comment Type <b>T</b> Comment Status <b>X</b> "2250 V dc, applied as specified in Section 5.4.9.1 of IEC 62368-1:2018." is not matching the IEC 62368-1:2018 requirement. Section 5.4.9.1 of IEC 62368-1:2018 states basic insulation is subjected to Table 12 values and the highest test voltage from Table 25, 26 or 27, which for 230 V mains is 2.5 kV peak AC or DC voltage. IEC 62368-1:2018 totally ignors the IEC 60664-1:2020, Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests, recommendation that an impulse voltage, not AC or DC voltages, is most appropriate test approach for coupled transients. SuggestedRemedy Change DC voltage to "DC 2500 V" to match IEC 62368-1					bination of two nund the virtual tim 1 to entry: It is we ematical meanin the impulse designed Remedy	Comment Status X 199 series) defines the impulse imbers, the first representing t e to half-value on the tail (T2) ritten as T1/T2, both in micros g. lation of 1.2/50 µs doesn't nee f the impulses is 1.2/50 µs " to Response Status <b>Q</b>	he virtual front ti seconds, the sig ed the μs.	me (T1) and the
Proposed Response	Response Status 0			C/ <b>0</b>	SC 0	P119	L <b>22</b>	# [ <del>-</del> 13
this voltage level: 2400 V is not a preferre for equipment within lo tests, which uses 2500 2500 V is used in ITU-	P119 Retired,Retire Comment Status X 00 V impulses of alternating p ed IEC voltage level - see IEC w-voltage supply systems - P V. IEC 62368-1:2018 also ha T K.20, K,21 and K.45 for Eth h as ATIS 0600012.05:2017,	olarity". There a 60664-1:2020, art 1: Principles, is a preferred va ernet port testing	Insulation coordination requirements and lue of 2500 V. g along with other	IEC 6 IC th DC n gene comb Suggeste Char	t Type TR ned in Annex D of 52368-1 specifies at includes a cap nains power distr rator that is spec pination generato edRemedy	Comment Status X f IEC 62368-1:2018." This gen the use of this circuit 2 D.1 ge acitor discharge function (ICX ibution systems. It is not used ified for insulation testing in IE r as described in IEC 61000-4 ed in Table 2 of IEC61000-4-5:	enerator in G.10 () and to simulat d for testing func C 60664-1:202( -5:2014 Table 2	3 Resistor test, G.16 te transients in AC and tional insulation. The 0 is the 1.2/50-8/20
SuggestedRemedy	g to "A sequence of ten 2500	V impulses of al	ternating polarity"	FIODOSEC	response	Response Status <b>O</b>		
Proposed Response	Response Status <b>O</b>							

Pa **119** Li **22** 



A major of the solution and the solution and the solution of the following items are NOT met then the isolation/functional insulation is shorted. These items are; clearance and creepage distance for basic insulation, clearance and creepage distance for basic insulation under pollution degree 1 or pollution degree 2 and electric strength test of 5.4.9.1 for basic insulation. Shorting the functional insulation shall not create an equipment safety hazard.

## SuggestedRemedy

Add text to the effect "Should insulation breakdown occur in isolation testing IEC 62368-1:2018 requires proof that an electrical hazard will not be created. IEC 62368-1:2018 B.4.4. applies a short across the isolation followed by a measurents and observations for safety hazards."

nse Status	0
	nse Status

How to handle voltage limiters has never been clearly defined, even back in the IEC 60950-1 days. Yet the approach is obvious to experienced engineers.

Many Ethernet port designs use a voltage limiting function (component) to prevent voltage transients (impulse) from causing the insulation breakdown. Technically the conduction of voltage limiting function is not insulation breakdown, but it will try to mitigate the specified AC, DC and impulse voltages appearing at the Ethernet port. IEC 62368-1 has two approaches when the external circuit port is fitted with voltage limiting. 5.4.9.1 Test procedure for type testing of solid insulation states "Components providing a DC path in parallel with the insulation to be tested, such as discharge resistors for filter capacitors and voltage limiting devices, may be disconnected." Please note "May" not "Shall". For impulse testing, the Table 28 notes explains some more "Surge suppressors may be removed, provided that such devices pass the impulse test of 5.4.10.2.2 when tested as components outside the equipment." and "During this test, it is allowed for a (fitted) surge suppressor to operate and for a sparkover to occur in a GDT."

For AC and DC testing no source impedance is specified (unlimited current) so voltage limiters must be removed to avoid destroying them. For impulse testing the voltage limiting function may be left in place as this is its intended purpose (mitigate transient voltages).

## SuggestedRemedy

Add the following text

"Voltage limiters intended to prevent Ethernet port insulation breakdown shall be removed for AC and DC voltage testing if their limiting voltage is less than the specified AC or DC test voltages applied. For impulse testing, voltage limiters may be left in place to perform their intended function. If removed for impulse testing, the voltage limiter shall pass the impulse test when separately tested."

Proposed Response Response Status O

CI 83A	SC 83A.6.1	P <b>122</b>	L17	# I-41			
Wienckow	ski, Natalie	General Moto	rs Company				
Comment	Туре Т	Comment Status X					
	eference to J.1 as ements".	well since the original text in	ncluded "includi	ng isolation			
Suggested	dRemedy						
	Add the following text after "conform to the": isolation requirements as specified in J.1 and Add change PICS ES1 to match.						
Proposed	Response	Response Status 0					

Pa **122** Li **17** 

C/ 83B	SC 83B.4.1	P <b>124</b>	L17	# 1-42
Wienckow	ski, Natalie	General Moto	rs Company	
Comment	Туре Т	Comment Status X		
	eference to J.1 as ements".	well since the original text in	cluded "includir	ng isolation
Suggested	Remedy			
	ne following text at hange PICS ES1	ter "conform to the": isolatio to match.	n requirements	as specified in J.1 and

Proposed Response Response Status **0** 

Pa **124** Li **17**