

Unconfirmed Meeting Minutes: Meeting of the IEEE 802.3 TIA Applications Table Ad Hoc

Tuesday December 20, 2022 Electronic Ad Hoc Meeting

Prepared by George Zimmerman

The IEEE 802.3 TIA Applications Table Ad Hoc meeting called to order at **7:03AM Pacific Time**, Tuesday, December 20, 2022 by George Zimmerman, Chair of the ad hoc.

The meeting was held electronically, and the purpose was to review the applications table provided by the TIA TR42 liaison and provide feedback on 802.3 applications to TIA, found at document

https://www.ieee802.org/3/private/liaison_docs/tia/1122_TIA_TR42_2nd_report_application_tables.pdf.

That being the scope of the ad hoc, there was no other agenda except the required procedural items from IEEE SA listed below.

The Chair asked if there were any corrections or additions to the agenda. The agenda was modified by adding approval of previous meeting minutes. There being no further corrections or additions, the agenda was approved by unanimous consent.

Attendance is listed in Appendix A

Administrative Matters

Mr. Zimmerman asked for consent that he act also as recording secretary, there was no objection.

Mr. Zimmerman then reminded participants to declare their affiliation in their Webex name or in the chat, and that attendance would be taken via Webex.

Members of the Press At 7:07AM Pacific Time the chair asked for any press members to identify themselves. None heard.

Chair reviewed the meeting ground rules, and IEEE Structure.

IEEE Patent Policy: At 7:14 AM Pacific Time, the Chair reviewed the IEEE SA patent policy (showed the slides 1 through 4). The call for Potentially Essential Patents was made and none responded.

IEEE Copyright Policy 7:18 AM Pacific Time the chair reviewed the slides on SA Copyright Policy as well as Code of Ethics and Conduct.

The chair then reviewed the slides on the IEEE SA individual process and non-dominance.



Discussion:

Having concluded the introductory material, the meeting then considered the TIA applications table document from the liaison officer

(https://www.ieee802.org/3/private/liaison_docs/tia/1122_TIA_TR42_2nd_report_application_tables.pdf).

Notes were made as pdf comments summarized in Appendix B.

8:41AM Pacific Agenda concludes, meeting is adjourned

Appendix A: Attendees at IEEE 802.3 TIA applications Table Ad Hoc

Carlson	Steve	High Speed Design/Bosch, Ethernovia	
Carty	Clark	Cisco Systems	
Law	David	HPE	
Maguire	Valerie	Copperopolis/Self	
Marques	Flavio	Furukawa Electric	
Nikolich	Paul	802 Chair/Self	
Schreiner	Stephan	Rosenberger	
Son	Yung	Optomind	
Thompson	Geoff	GraCaSI SA / Self	
Voss	Bob	Panduit	
Weaver	James	Arista Networks	
Zimmerman	George	CME Consulting/APL Group, Cisco, CommScope, Marvell, OnSemi, SenTekse	

Attachment B: Comments on TIA Applications Table (meeting output):

Summary of Comments on Microsoft Word - 20221020

Larsen ap support tables

Page: 2

- 1** Number: 1 Author: GeorgeZimmerman Subject: Highlight Date: 12/20/2022 7:24:12 AM
Advise TIA of 10BASE-Te type which is not supported on Category 3. (suggest a new row, without category 3)

- 1** Number: 2 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:16:55 AM
(10BASE-T) suggest footnote (to cat 3 on 10BA SE-T): "Also supported on legacy Category 5 cabling, formerly supported as a TIA medium which may be found in installed cabling."

- 1** Number: 3 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:17:10 AM
(100BASE-TX) suggest footnote (to cat 5e on 100BASE-TX): "Supported on legacy Category 5 cabling, formerly supported as a TIA medium which may be found in installed cabling."

- 1** Number: 4 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:17:22 AM
(1000BASE-T) Suggest footnote for 1000BASE-T similar to existing footnote (2) citing category 5 qualified to TSB-95.

- 1** Number: 5 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:17:48 AM
(Type 1 PoE) add category 3 for Type 1 PoE as well as reference the footnote added to 10BASE-T about category 5.

- 1** Number: 6 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:18:08 AM
(Type 2 PoE) add same note about Cat5e) as 100BASE-TX

- 1** Number: 7 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:18:18 AM
(Type 3 PoE) add same note about Cat5e) as 100BASE-TX

- 1** Number: 8 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:18:33 AM
(Type 4 PoE) add same note about Cat5e) as 100BASE-TX

- 1** Number: 9 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:07:07 AM
HDBASE-T through ISDN PRI rows were not considered by the adhoc because they are not IEEE 802.3 standards.

 Number: 1 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:07:51 AM

There are no 10BASE-SX or 100BASE-SX in IEEE Std 802.3. If this is something other than 802.3, please delete the term "Ethernet", otherwise delete or amend the row to be the intended application. Note that each row should be about a single application and this one appears to be about two. There is 10BASE-FB, FP and FL, which support to at least 1km, but does not reference TIA. For more information see clause 15.3 of IEEE Std 802.3-2022.

 Number: 2 Author: GeorgeZimmerman Subject: Sticky Note Date: 12/20/2022 8:00:32 AM

Add row for 10BASE-FL/FOIRL - See IEEE Std 802.3 Clauses 15 and 9.9 for the medium characteristics.

Number: 1 Author: GeorgeZimmerman Subject: Sticky Note Date: 12/20/2022 8:23:04 AM

Add 100BASE-LX10 and 100BASE-BX10 see IEEE Std 802.3-2022 Clause 58Add 1000BASE-LX10 and 1000BASE-BX10 see IEEE Std 802.3-2022 Clause 59Add 10GBASE-BR10, BR20 and BR40 see IEEE Std 802.3-2022 Clause 158

Add 25GBASE-BR10, BR20 and BR40 see IEEE Std 802.3-2022 Clause 159

Add 50GBASE-BR10, BR20 and BR40 see IEEE Std 802.3-2022 Clause 160

Number: 2 Author: GeorgeZimmerman Subject: Sticky Note Date: 12/20/2022 8:27:34 AM

Need to add 25G and 50G PHYs
(see Table 105-1 fiber PHYs):(MM) 25GBASE-SR (clause 112), LR (clause 114), ER (clause 114)

Table 131-1 fiber phys for 50G:(MM) 50GBASE-SR (clause 138), FR (139), LR (139), ER (139)

Number: 3 Author: GeorgeZimmerman Subject: Sticky Note Date: 12/20/2022 8:30:33 AM

Add 200G and 400G ethernet fiber phys:
see IEEE Std 802.3 Table 116-1 (200G) and 116-2 (400G)

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-  Number: 1 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:09:56 AM
(10GBASE-PRX10) Please reference the latest version of IEEE802.3-2022, not the amendment as it has been superceded.
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-  Number: 2 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:10:41 AM
(10GBASE-PR10) Please reference the latest version of IEEE802.3-2022, not the amendment as it has been superceded.
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-  Number: 3 Author: GeorgeZimmerman Subject: Sticky Note Date: 1/9/2023 9:11:26 AM
(1000BASE-PX20) See IEEE Std 802.3 Table 56-1 for additional EPON types, including 25G and 50G EPON types as well as IEEE Std 802.3cs-2022 (super-PON).
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-  Number: 4 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:14:28 AM
(10GBASE-PRX20) Should reference IEEE 802.3, not the amendment, as the amendment has been included in the base standard.
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 Number: 1 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:15:25 AM
(10GBASE-PR20) Should reference IEEE 802.3, not the amendment, as the amendment has been included in the base standard.

 Number: 2 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:16:14 AM
(10GBASE-PRX30) Should reference IEEE 802.3, not the amendment, as the amendment has been included in the base standard.

 Number: 3 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:16:26 AM
(10GBASE-PR30) Should reference IEEE 802.3, not the amendment, as the amendment has been included in the base standard.

 Number: 1 Author: GeorgeZimmerman Subject: Highlight Date: 1/9/2023 9:16:37 AM
(Table 11) You may wish to add maximum supportable distances for Type E PoDL (SPoE) powering, Classes 10 & 13 (65ohms); 11 & 14 (25ohms);
12 & 15(9.5 ohms)