IEEE 802.3 Ethernet Working Group TIA TR-42 Liaison to IEEE 802.3

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Introduction to TIA

- Telecommunications Industry Association
- www.tiaonline.org
- TR-42: Defines mechanical and transmission requirements for copper twisted-pair, optical fiber, and coaxial cabling and components
- Chris DiMinico is outgoing liaison from IEEE 802.3 to TIA TR-42

Agenda and TIA Meeting Overview

- Most recent TR-42 Plenary week:
 Jun 10 14, 2019 in Vancouver, CAN
- Review TR-42 subcommittee activities
 - 8 subcommittees met
- Update on project development
- This symbol highlights key points of interest

TIA TR-42 Liaison Letter to IEEE 802.3

No incoming liaison letters from TR-42

- TR-42.1 (Premises Infrastructure):
 - New project: ANSI/TIA-758-C, "Customer-Owned Outside Plant Telecommunications Infrastructure Standard" circulating for industry ballot
- New project: ANSI/TIA-568.0-E, "Generic Telecommunications Cabling for Customer Premises" circulating for industry ballot
- New project: ANSI/TIA-568.1-E, "Commercial Building Telecommunications Infrastructure Standard" circulating for industry ballot

- TR-42.1 (Premises Infrastructure), cont.:
 - New project: TSB-162-A, "Telecommunications Cabling Guidelines for Wireless Access Points" circulating for committee ballot
 - New project: ANSI/TIA-4966-A,
 Telecommunications Infrastructure Standard for Educational Facilities" under development
 - New project: ANSI/TIA-942-B-1 (TBD),
 "Telecommunications Infrastructure Standard for Data Centers, Addendum 1: Edge Data Centers (TBD)" under development

TR-42.1 (Premises Infrastructure), cont.:



 New project: ANSI/TIA-568.0-D-2, "Generic Telecommunications Cabling for Customer Premises, Addendum 2: Single Balanced Twisted-pair Use Cases and Topology" under development



 New project: ANSI/TIA-862-B-2, "Structured Cabling Infrastructure Standard for Intelligent Building Systems, Addendum 2: Single Balanced Twisted-pair Use Cases and Topology" under development

- TR-42.3 (Pathways, Spaces, and Grounding):
 - ANSI/TIA-569-E, "Commercial Building Standard for Telecommunications Pathways and Spaces" published
 - ANSI/TIA-607-D, "Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises" approved for publication
- TR-42.5 (Terms and Symbols):
 - Definitions, acronyms, units of measure, and symbols maintained in a working document

TR-42.7 (Copper Cabling):



 New project: ANSI/TIA-568.5, "Single Twisted-pair Cabling and Components Standard" circulating for mock ballot



 New project: ANSI/TIA-568.2-D-2, "Balanced Twisted-Pair Telecommunications Cabling and Components Standard, Addendum 2: Power Delivery Over Balanced Twisted-Pair Cabling" under development



 Task Group studying category 8 short channel alien crosstalk

- TR-42.9 (Industrial Infrastructure):
 - New project: ANSI/TIA-1005-B (TBD),
 "Telecommunications Infrastructure Standard for Industrial Premises" circulating for industry ballot



 New project: ANSI/TIA-1005-A-2,
 "Telecommunications Infrastructure Standard for Industrial Premises, Addendum 2: 1G Industrial Cabling for Four Pair (100 meters) (1000BASE-T) for E2 and E3 Environments" circulating for industry ballot

• TR-42.9 (Industrial Infrastructure), cont.:



 New project: ANSI/TIA-1005-A-3,
 "Telecommunications Infrastructure Standard for Industrial Premises, Addendum 3: 1G Industrial Cabling for One Pair Type B (40 meters) (1000BASE-T1) for E2 and E3 Environments" circulating for committee ballot



 New project: ANSI/TIA-PN-1005-A-4,
 "Telecommunications Infrastructure Standard for Industrial Premises, Addendum 4: Single Balanced Twisted-pair Use Cases and Topology for Industrial Premises" under development

- TR-42.11 (Optical Fiber Systems):
 - New project: TSB-5069, "Optical Fiber Channel Polarity - Duplex - Single Row Fiber - Double Row Fiber Polarity" circulating for committee ballot
- TR-42.12 (Optical Fibers and Cables), cont.:
 - New project: ANSI/TIA-455-82-B, "FOTP-82 Fluid Penetration Test for Fluid-Blocked Fiber Optic Cable" circulating for industry ballot
 - New project: ANSI/TIA-598-E, "Optical Fiber Color Coding" under development

- TR-42.12 (Optical Fibers and Cables), cont.:
 - New project: ANSI/TIA-455-244-A, "FOTP-244-A Methods for Measuring the Change in Transmittance of Optical Fibers in Expressed Buffer Tubes When Subjected to Temperature Cycling" under development
 - New project: ANSI/TIA-455-3-B, "FOTP-3-C
 Procedure to Measure Temperature Cycling
 Effects on Optical Fiber Units, Optical Cable, and
 Other Passive Fiber Components" under
 development

- TR-42.13 (Passive Optical Devices and Metrology)
 - New project: ANSI/TIA-604-19, "FOCIS 19-Fiber Optic Connector Intermateability Standard Type SEN Connector" circulating for industry ballot

Upcoming TIA Meetings

TR-42 Plenary Meetings September 16 - 20, 2019 Albuquerque, NM

www.tiaonline.org

Thank you

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