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:
  June 6-10, 2022 via GoToWebinar
• Review TR-42 subcommittee activities
  – 8 subcommittees met
• Update on project development
• ➡️ This symbol highlights key points of interest
TIA TR-42 Activities

• TR-42.1 (Premises Infrastructure):
  – ANSI/TIA-942-C, “Telecommunications Infrastructure Standard for Data Centers, Comment resolution progressing, will continue in interim meeting July 7
TIA TR-42 Activities

- **TR-42.1 (Premises Infrastructure), cont.:**
  - ANSI/TIA-862-C, “Structured Cabling Infrastructure Standard for Intelligent Building Systems” approved for publication
  - ANSI/TIA-758-C, “Customer-Owned Outside Plant Telecommunications Infrastructure Standard” to be circulated for industry ballot
TIA TR-42 Activities

• TR-42.1 (Premises Infrastructure), cont.:
  – ANSI/TIA-1179-B, “Healthcare Facility Telecommunications Infrastructure Standard” Comments resolved, to be circulated for re-ballot
TIA TR-42 Activities

- **TR-42.3 (Pathways, Spaces, and Grounding):**
  - ANSI/TIA-569-E-1, “Commercial Building Standard for Telecommunications Pathways and Spaces, Addendum 1: Revised Temperature and Humidity Guidelines for Telecommunications Spaces” Approved for publication

- **TR-42.5 (Terms and Symbols):**
  - Definitions, acronyms, units of measure, and symbols maintained in a working document
TIA TR-42 Activities

• TR-42.7 (Copper Cabling):
  – ANSI/TIA-568.5-1, “Single Twisted-Pair Cabling and Components Standard Addendum 1, some corrections” Circulating for industry ballot
  – ANSI/TIA-5071, “Requirements for Field Test Instruments and Measurements for Balanced Single Twisted-Pair Cabling” Approved for publication
  – ANSI/TIA-1183-B, “Measurement Methods and Test Fixtures for Balunless Measurements of Balanced Components and Systems” Comments resolved, to be circulated for industry re-ballot
TIA TR-42 Activities

• TR-42.7 (Copper Cabling), cont.:
  – ANSI/TIA-568.4-E, “Broadband Coaxial Cabling and Components Standard” Approved for publication
  – New project: ANSI/TIA-568.6, “Single-Pair Multidrop Cabling and Components Standards” under development
TIA TR-42 Activities

• TR-42.9 (Industrial Infrastructure):
  – New project: ANSI/TIA-1005-B, “Telecommunications Infrastructure Standard for Industrial Premises” circulating for committee ballot, work has been paused temporarily
  – New project: ANSI/TIA-568.7, “Balanced Single Twisted-Pair Communications Cabling and Components Standard for Industrial Premises” to be circulated for ballot
TIA TR-42 Activities

- **TR-42.11 (Optical Fiber Systems):**
  - New Project: ANSI/TIA-568.3-E-1 to incorporate polarity content from TSB-5069
  - New project: ANSI/TIA-568.3-E, “Optical Fiber Cabling Components Standard” approved for publication
  - New project: TIA-526-14-D, “Optical Power Loss Measurement of Installed Multimode Fiber Cable Plant” to be circulated for default ballot
TIA TR-42 Activities

• TR-42.11 (Optical Fiber Systems), cont.:
  – New project: ANSI/TIA-590-A, “Standard for Physical Location and Protection of Below Ground Fiber Optic Cable Plant” status under review
TIA TR-42 Activities

• **TR-42.12 (Optical Fibers and Cables):**
  - **New Project:** Errata to TIA-492AAAF-1, “Sectional Specification for Category A1 Graded-Index Multimode Optical Fibers (adoption of IEC 60793-2-10)”
  - ANSI/TIA-455-111 (FOTP-111), adoption of IEC 60793-1-34 Measurement methods – Fibre curl, was conditionally approved for publication.
TIA TR-42 Activities

- TR-42.12 (Optical Fibers and Cables), cont.:
  - ANSI/TIA-455-111, “FOTP-111 Fiber Curl” (adoption of IEC 60793-1-34) conditionally approved for publication
TIA TR-42 Activities

• TR-42.13 (Passive Optical Devices and Metrology)
TIA TR-42 Activities

- TR-42.13 (Passive Optical Devices and Metrology), cont.
TIA TR-42 Activities

• TR-42.13 (Passive Optical Devices and Metrology), cont.
  – New project: TIA-621-1, “Fibre Optic Connector Optical Interfaces - Part 1: Optical Interfaces for Single Mode Non-Dispersion Shifted Fibres - General and Guidance” (adoption of IEC 61755-1) to be circulated for ballot
  – New project: TIA-622-1, Fibre Optic Connector Optical Interfaces – Part 2 1: Optical Interface Standard Single Mode Non-Angled Physically Contacting Fibres” (adoption of IEC 61755-2-1) to be circulated for ballot
TIA TR-42 Activities

- TR-42.13 (Passive Optical Devices and Metrology), cont.
  - New project: TIA-622-2, “Fibre Optic Connector Optical Interfaces – Part 2 2: Optical Interface Standard Single Mode Angled Physically Contacting Fibres” (adoption of IEC 61755-2-2) to be circulated for ballot
Upcoming TIA Meetings

TR-42 Plenary Meetings
October 3 - 7, 2022
To be hybrid Face-to-face and virtual

www.tiaonline.org
Thank you

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