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:
  Sep 16 - 20, 2019 in Albuquerque, NM
• Review TR-42 subcommittee activities
  – 8 subcommittees met
• Update on project development
• ➡ This symbol highlights key points of interest
TIA TR-42 Liaison Letters to IEEE 802.3

- No incoming liaison letters from TR-42
TIA TR-42 Activities

• TR-42.1 (Premises Infrastructure):
  – New project: ANSI/TIA-568.0-E, “Generic Telecommunications Cabling for Customer Premises” circulating for default ballot
  – New project: ANSI/TIA-568.1-E, “Commercial Building Telecommunications Infrastructure Standard” circulating for default ballot
TIA TR-42 Activities

• TR-42.1 (Premises Infrastructure), cont.:
  – New project: ANSI/TIA-942-B-1, “Telecommunications Infrastructure Standard for Data Centers, Addendum 1: Edge Data Centers” under development
TIA TR-42 Activities

• TR-42.1 (Premises Infrastructure), cont.:
TIA TR-42 Activities

• TR-42.1 (Premises Infrastructure), cont.:
  – Joint TR-42.1/TR-42.7 Task Group formed to study building automation and multidrop single twisted-pair implementations

• TR-42.3 (Pathways, Spaces, and Grounding):

• 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):**
TIA TR-42 Activities

• TR-42.7 (Copper Cabling), cont/:
  - New project: ANSI/TIA-xxxx, “Requirements for Field Test Instruments and Measurements for Balanced Single Twisted-Pair Cabling” under development
  - Task Group studying category 8 short channel alien crosstalk
TIA TR-42 Activities

• TR-42.9 (Industrial Infrastructure):
  – The content of proposed 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” will be incorporated into this revision of ANSI/TIA-1005
TIA TR-42 Activities

• TR-42.9 (Industrial Infrastructure), cont.:
TIA TR-42 Activities

• TR-42.11 (Optical Fiber Systems):
  – New project: ANSI/TIA-568.3-E, “Optical Fiber Cabling Components Standard” under development
  – New project: TIA-526-14-D, “Optical Power Loss Measurement of Installed Multimode Fiber Cable Plant” under development
TIA TR-42 Activities

• TR-42.12 (Optical Fibers and Cables):
  – 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-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” circulating for industry ballot
  – New project: ANSI/TIA-598-E, “Optical Fiber Color Coding” under development
TIA TR-42 Activities

• TR-42.12 (Optical Fibers and Cables), cont.:
  – 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
TIA TR-42 Activities

- 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
January 27 - 31, 2020
New Orleans, LA

www.tiaonline.org
Thank you

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