TIA TR-42 Liaison to IEEE 802.3

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Vice Chair, TIA TR-42 Telecommunications Cabling Systems Engineering Committee

Vice Chair, TIA TR-42.7 Copper Cabling Subcommittee

July, 2011
San Francisco, CA
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
Agenda and Meeting Overview

• June 13 – 17 in Quebec City, CAN
• Review TR-42 sub-committee activities
  • 10 sub-committees met
• Update on project development
• ➡️ This symbol highlights key points of interest
**TR-42 Activities**

- **TR-42.1 (Commercial Building Cabling):**
  - ANSI/TIA-568-C.1-2, “General Updates” approved for publication
  - New project: ANSI/TIA-568-C.0-2, “General Updates” circulating for default ballot
TR-42 Activities

- TR-42.2 (Residential Infrastructure):
  - New project: ANSI/TIA-570-C, “Residential Telecommunications Infrastructure” circulating for industry ballot

- TR-42.3 (Pathways and Spaces):
  - New project: ANSI/TIA-569-C, “Commercial Building Standard for Telecommunications Pathways and Spaces” circulating for default ballot
TR-42 Activities

• TR-42.3 (Pathways and Spaces), cont.:
  – ANSI/TIA-568-C.1-1, “Commercial Building Telecommunications Cabling Standard, Addendum 1 Pathway and Spaces” approved pending publication of ‘569-C

• TR-42.4 (Outside Plant):
  – No active projects
  – Group in “hibernation”
TR-42 Activities

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

- TR-42.6 (Infrastructure Administration):
TR-42 Activities

- TR-42.7 (Copper Cabling):
  - New project: TIA-1183, “Test Fixtures for Balunless Measurements of Balanced Components and Systems” circulating for industry ballot
  - New project: TSB-1197, “Mode Conversion Parameters for Balanced Twisted-Pair Cabling” under development
TR-42 Activities

- TR-42.7 (Copper Cabling), cont.:
  - New project: ANSI/TIA-568-C.2-1
    “Balanced Twisted-Pair Telecommunications Cabling and Components Standard, Addendum 1: Specifications for 100Ω Next Generation Cabling” under development
**TR-42 Activities**

- TR-42.7 (Copper Cabling), cont.:
  - Four “100Ω Next Generation Cabling”
    - Task Groups established
      1. Cable TG
      2. Connector TG
      3. Applications Space TG
      4. Capacity Task TG
  
  Contact the Chair of TR-42.7
  (sterling.vaden@occfiber.com) for participation information
**TR-42 Activities**

- TR-42.9 (Industrial Infrastructure):
TR-42 Activities

- TR-42.11 (Optical Fiber Systems):
  - ANSI/TIA-568-C.3-1, “Optical Fiber Cabling Components Standard – Addendum 1, Addition of OM4 Cabled Optical Fiber and 24-fiber array connectors” approved for publication
  - OM3 and OM4 loss budgets under study
  - Encircled flux test methodology under study
**TR-42 Activities**

- TR-42.12 (Optical Fibers and Cables):
  - New project: TIA-455-7/FOTP-7, “Numerical Aperture” circulating for committee ballot
  - New project: TIA-455-28/FOTP-28, “Dynamic Tension” circulating for committee ballot
  - New project: TIA-455-80/FOTP-80, “Patch Cord Wavelength” under development
  - Task group formed to study bend-insensitive multimode fiber

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TR-42 Activities

- TR-42.13 (Passive Optical Devices and Components):
  - Subcommittee did not meet
  - 40 published Standards to be reaffirmed (refer to contribution: TR42-2011-06-093)
  - New project: TIA-455-34A, “Interconnection Device Insertion Loss Test” under development
**TR-42 Activities**

- TR-42.13 (Passive Optical Devices and Components), cont.:
  - TSB-140, “Additional Guidelines for Field-Testing Length, Loss and Polarity of Optical Fiber Cabling Systems” to be withdrawn
  - Return loss calibration under study
  - Power meter linearity under study
  - New multimode launch conditions (TIA-455-34/FOTP-34) under study
**TR-42 Activities**

- TR-42.16 (Grounding and Bonding):
  - ANSI/TIA-607-B “Telecommunications Grounding (Earthing) and Bonding for Customer Premises” approved for publication
Upcoming TIA Meetings

TR-42 Plenary Meetings

October 3 - 7, 2011
San Antonio, TX

www.tiaonline.org
Thank you

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