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

Valerie Maguire The Siemon Company Teleconference Update November 8, 2021

- 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:
 October 4 8, 2021 via GoToWebinar
- 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

 Request from IEEE 8002.3 on a replacement reference for TIA-455-54, "Mode Scrambler Requirements for Overfilled Launching Conditions to Multimode Fibers" (document is expiring)

Response from TIA, "Regarding the reference to test method TIA-455-54 (FOTP 54), we recommend replacing it with a reference to Annex D, of TIA-455-204 (FOTP 204). This annex includes the entire text that was published in FOTP 54. The bibliography of FOTP 54 is included in the bibliography of FOTP 204."

- TR-42.1 (Premises Infrastructure):
 - Errata to ANSI/TIA-568.0-E, "Generic Telecommunications Cabling for Customer Premises" correcting units and references in Table 10 approved for publication
 - Publication of ANSI/TIA-862-C, "Structured Cabling Infrastructure Standard for Intelligent Building Systems" on hold pending publication of ANSI/TIA-568.5

• TR-42.1 (Premises Infrastructure):

- Publication disposition of ANSI/TIA-568.0-E-1, "Generic Telecommunications Cabling for Customer Premises, Addendum 1: Single Balanced Twisted-pair Use Cases and Topology" on hold pending publication of ANSI/TIA-568.5
- New project: ANSI/TIA-942-B-1,
 "Telecommunications Infrastructure Standard for Data Centers, Addendum 1: Edge Data Center Infrastructure" circulating for default ballot
 - New terminology introduced, "Micro Edge Data Center (μEDC)

- TR-42.1 (Premises Infrastructure), cont.:
 - New project: ANSI/TIA-4966-A,
 "Telecommunications Infrastructure Standard for Educational Facilities" circulating for default ballot
 - New project: ANSI/TIA-758-C, "Customer-Owned Outside Plant Telecommunications Infrastructure Standard" circulating for industry ballot
 - New project: ANSI/TIA-1179-B, "Healthcare Facility Telecommunications Infrastructure Standard" circulating for committee ballot

- TR-42.1 (Premises Infrastructure), cont.:
 - New project: ANSI/TIA- 5017-A,
 "Telecommunications Physical Network Security Standard" circulating for committee ballot
 - New project: ANSI/TIA-942-C, "Telecommunications Infrastructure Standard for Data Centers" planned for development pending publication of ANSI/TIA-942-B-1

- TR-42.3 (Pathways, Spaces, and Grounding):
 - ANSI/TIA-606-D, "Administration Standard for Telecommunications Infrastructure" 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), cont.:
- New project: ANSI/TIA-568.5, "Single Twisted-Pair Cabling and Components Standard" circulating for default ballot
 - New project: ANSI/TIA-5071, "Requirements for Field Test Instruments and Measurements for Balanced Single Twisted-Pair Cabling" circulating for industry ballot

- TR-42.7 (Copper Cabling), cont.:
- New project: ANSI/TIA-568.6, "Single-Pair Multidrop Cabling and Components Standards" under development
- New project: TSB-184-A-2, "Guidelines for Supporting Power Delivery over Balanced Single Twisted-Pair Cabling" under development

- TR-42.9 (Industrial Infrastructure):
- New project: ANSI/TIA-1005-B,
 "Telecommunications Infrastructure Standard for Industrial Premises" circulating for committee ballot
- New project: ANSI/TIA-568.7, "Balanced Single Twisted-Pair Communications Cabling and Components Standard for Industrial Premises" under development

- TR-42.11 (Optical Fiber Systems):
- New project: ANSI/TIA-568.3-E, "Optical Fiber Cabling Components Standard" circulating for industry ballot
 - New project: TIA-526-14-D, "Optical Power Loss Measurement of Installed Multimode Fiber Cable Plant" circulating for industry ballot
 - New project: TIA-526-7-A, "Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant (adoption of IEC 61280-4-2)" status under review

- 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

- TR-42.12 (Optical Fibers and Cables):
 - Errata to TIA-4920000-B, "Generic Specification for Optical Fibers (adoption of IEC 60793-2)" under development
 - Errata to TIA-492AAAF, "Sectional Specification for Category A1 Graded-Index Multimode Optical Fibers (adoption of IEC 60793-2-10)" under development
 - Errata to TIA-492CAAC, "Sectional Specification for Class B Single-mode Optical Fibers (adoption of IEC 60793-50)" under development

- TR-42.12 (Optical Fibers and Cables):
 - Published project: TIA-455-30-B, "FOTP-30:
 Frequency Domain Measurement of Multimode
 Optical Fiber Information Transmission Capacity"
 proposed to withdraw
- Published project: TIA-455-54-B, "FOTP-54: Mode Scrambler Requirements for OFL Conditions to Multimode Fibers" proposed to withdraw
 - Published project: TIA-455-124-A, "FOTP-124: Polarization-Mode Dispersion Measurement for Single-Mode Optical Fibers by Interferometry" proposed to withdraw

- TR-42.12 (Optical Fibers and Cables):
 - New project: ANSI/TIA-455-3-C, "FOTP-3 Procedure to Measure Temperature Cycling Effects on Optical Fiber Units, Optical Cable, and Other Passive Fiber Components" circulating for industry ballot
 - New project: ANSI/TIA-455-133-B, "FOTP-133
 Measurement Methods and Test Procedures -Length Measurement (adoption of IEC-60793-1-22)" circulating for industry ballot
 - New project: ANSI/TIA-455-203-B, "FOTP-203
 Light Source Encircled Flux Measurement
 Method" circulating for industry ballot

- TR-42.12 (Optical Fibers and Cables), cont.:
 - New project: ANSI/TIA-455-204-B, "FOTP 204 Measurement of Bandwidth on Multimode Fiber" circulating for industry ballot
 - New project: ANSI/TIA-598-E, "Optical Fiber Color Coding" under development
 - New project: ANSI/TIA-455-111-B, "FOTP-111 Fiber Curl (adoption of IEC 60793-1-34)" under development

- TR-42.13 (Passive Optical Devices and Metrology)
 - No documents currently under development

Upcoming TIA Meetings

TR-42 Plenary Meetings January 24 - 28, 2022 Virtual GoToWebinar

www.tiaonline.org

Version 1.2

TIA TR-42 Liaison to IEEE 802.3 – November 2021 IEEE 802.3 Opening Plenary

Thank you

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