

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 and optical fiber cabling and components**

Agenda and Meeting Overview

- **October 6 - 10 in Vancouver, CAN**
- **Review “Green Activities” liaison**
- **Review TR-42 sub-committee activities**
- **Update on ‘568-C development**

TR-42 Liaison to IEEE 802.3

“TIA launched TIA launched a comprehensive environmental information service in May 2008. To support this service and the green and sustainable resources movements, TIA has requested the engineering committees compile materials in support of related projects. We understand that cabling considerations impact a number of 802.3az objectives and would appreciate a better understanding of your view of how TR-42 may participate in the 802.3az effort and in any other IEEE 802.3 projects which may address environmental initiatives.”

TR-42 Activities

- **TR-42.1 (Commercial Building Cabling):**
 - **ANSI/TIA-568C.0 and ANSI/TIA-568C.1 for publication**
 - **New project: Addendum 2 to TIA-942 (Data Centers) to address “Additional Media and Guidelines” circulating for 2nd ballot**
 - **New project: TSB-195 to provide a MICE Tutorial circulating for 2nd ballot**
 - **Erratum: Corrections to annex G (Tiers) of TIA-942 will be issued**

TR-42 Activities

- **TR-42.2 (Residential Infrastructure):**
 - **TIA-570-B-1, “Requirements for Residential Broadband Coaxial Cabling”, approved for publication pending paperwork**
- **TR-42.3 (Pathways and Spaces):**
 - **New project: Revision to the ANSI/TIA-569 standard**

TR-42 Activities

- **TR-42.4 (Outside Plant):**
 - **New project: Revision to the ANSI/TIA-758 Standard**
- **TR-42.5 (Terms and Symbols):**
 - **Dictionary terms will replace the glossary on the TIA web site**

TR-42 Activities

- **TR-42.6 (Infrastructure Administration):**
 - **Addendum 1 to TIA-606-A (Administration) addressing, “Equipment Room and Data Center Computer Room Administration” approved for publication**
 - **New project: Revision to the ANSI/TIA-606 Standard**

TR-42 Activities

- **TR-42.7 (Copper Cabling):**
 - **New project: TIA-1152, “Requirements for Field Test Instruments” circulating for 1st ballot**
 - **New project: TSB-184, “Guidelines for Supporting Power Delivery over Twisted-Pair Cabling” circulating for 2nd ballot**
 - **Draft 2.0 of PN-3-0324-A (TSB-184) available on IEEE 802.3 and IEEE 802.3at FTP sites (private-area)**

TR-42 Activities

- **TR-42.8 (Optical Fiber Cabling):**
 - **Erratum: Corrections (20) to ANSI/TIA-568-C.3 will be issued**
- **TR-42.9 (Industrial Infrastructure):**
 - **TIA-1005 addressing, “Industrial Cabling” approved for publication**

TR-42 Activities

- **TR-42.11 (Optical Fiber Systems):**
 - **TIA 455-203A (FOTP-203A), “Light Source Encircled Flux Method” approved for publication**
 - **Reaffirmed: OFSTP-10, “Measurement of Dispersion Power Penalty in Digital Single-Mode Systems”**
 - **Reaffirmed: OFSTP-11, “Measurement of Single-reflection Power Penalty for Fiber Optic Terminal Equipment”**

TR-42 Activities

- **TR-42.11 (Optical Fiber Systems), cont.:**
 - **OFSTP-7, “Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant” circulating for ballot review**
 - **New project: Revision to OFSTP-14A, “Optical Power Loss Measurements of Installed Multimode Fiber Cable Plant”**
 - **Withdrawn: TIA-626, “Multimode Fiber-Optic Link Transmission Design”**

TR-42 Activities

- **TR-42.12 (Optical Fibers and Cables):**
 - **FOTP-3, “Temperature Cycling Fiber Cables and Connectors” approved for publication**
 - **ITM-9, addressing ribbon strip fiber, approved for publication as TSB-182**
 - **FOTP-244, addressing temperature cycling of tubes expressed in pedestals, circulating for ballot**
 - **TIA-492AAAD, addressing OM4 fiber specification, circulating for ballot**

TR-42 Activities

- **TR-42.12 (Optical Fibers and Cables), cont.:**
 - **New project: Revision of FOTP-204, addressing multimode bandwidth**
- **TR-42.13 (Interconnecting Devices and Passive Components):**
 - **FOTP-219A, addressing MT fiber protrusion approved for publication**

TR-42 Activities

- **TR-42.13 (Interconnecting Devices and Passive Components), cont.:**
 - **New projects:**
 - **Adhesive Application Guidelines**
 - **Adhesion Strength Test Methods,**
 - **MDU/MTU Cabling (with TR-42.2, TR-42.12 and TR-42.13)**
 - **APC Endface Geometry**
 - **FOTP-241 Connector Seal Under Load**

TR-42 Activities

- **TR-42.13 (Interconnecting Devices and Passive Components), cont.:**
 - **New projects, cont.:**
 - **Method for Measuring GPB Diameter in MT Ferrules**
 - **Method for Measuring Relative Angle in GPB Axis in MT Ferrules**
 - **29 other documents that are working as reaffirmation, withdrawal, or balloting**

TR-42 Activities

- **TR-42.15 (Fiber Optical Metrology):**
 - **IEC-61315 (FOTP 231) approved for publication**
 - **IEC-61744 (FOTP 224) approved for publication**
 - **IEC-61746 (FOTP 226) approved for publication**

TR-42 Activities

- **TR-42.16 (Grounding and Bonding, previously TR-42.3.1):**
 - **New project: Revision of TIA-607-B (Grounding and Bonding)**

'568-C Development

- **ANSI/TIA-568-C.0**
 - **Approved for publication: October, 2008**
- **ANSI/TIA-568-C.1**
 - **Approved for publication: October, 2008**
- **SP-3-4426-RV3-B: (pending '568-C.2)**
 - **1st SP ballot closed October 27, 2008**
 - **Targeted publication: July 2009**
- **ANSI/TIA-568-C.3**
 - **Approved for publication: September, 2007**

Upcoming TIA Meetings

TR-42.7 Interim Meeting

December 2 - 4, 2008

Miami, FL

TR-42 Plenary Meeting

February 2 - 6, 2009

Phoenix, AZ

www.tiaonline.org

Pending Miami Discussions

- **Resolve SP-3-4426-RV3-B comments**
- **Flex time for:**
 - **Review PN-3-0324-A (TSB-184) ballot comments**
 - **Cabling and component balance specification**
 - **Test fixturing**

Thank you

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