

TIA TR-42 Liaison to IEEE 802.3

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July, 2008

Denver, CO

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

- **June 2 - 6 in Providence, RI**
- **Review TR-42 sub-committee activities**
- **Review TR-42 liaison to IEEE 802.3 regarding current carrying capacity and new project initiative**
- **Update on '568-C development**

TR-42 Activities

- **TR-42.1 (Commercial Building Cabling):**
 - **New project: Addendum 2 to TIA-942 (Data Centers) to address “Additional Media and Guidelines”**
- **TR-42.2 (Residential Infrastructure):**
 - **TIA-570-B-1 “Requirements for Residential Broadband Coaxial Cabling” Standard approved for publication**

TR-42 Activities

- **TR-42.3 (Pathways and Spaces):**
 - **New project: Revision of TIA-569-B, “Telecommunications Pathways and Spaces” opened**
 - **New project: Addendum to TIA-569-B (Pathways and Spaces) to address “Temperature and Humidity Requirements for Space” opened**
 - **TR-42.3.1 (Grounding and Bonding) elevated to subcommittee level**

TR-42 Activities

- **TR-42.5 (Outside Plant):**
 - Subcommittee will reactivate in October
- **TR-42.5 (Terms and Symbols):**
 - Dictionary development ongoing
- **TR-42.6 (Infrastructure Administration):**
 - Default ballot of Addendum 1 to TIA-606-A (Administration) addressing, “Equipment Room and Data Center Computer Room Administration” circulating

TR-42 Activities

- **TR-42.7 (Copper Cabling):**
 - **New project: TIA-1152, “Requirements for Field Test Instruments” opened**
 - **New project: TSB-184, “Guidelines for Supporting Power Delivery over Twisted-Pair Cabling” opened**
 - **New project: Addendum 1 to TIA-568-C (Copper Cabling) to address “Balance and Coupling Attenuation Requirements” opened**

TR-42 Activities

- **TR-42.7 (Copper Cabling), cont.:**
 - **Liaison to IEEE 802.3 addressing:**
 - **Project TSB-184 initiated**
 - **Temperature vs. current data at various temperatures**
 - **Calculation capacity values**
 - **Calculated values consistent with ISO/IEC JTC 1/SC 25/WG 3 N 864**
 - **Proceed to an online review of the liaison letter**

TR-42 Activities

- **TR-42.8 (Optical Fiber Cabling):**
 - **TR-42 has established a liaison with INCITS Fibre Channel (T11) Technical Committee (Terry Cobb and Doug Coleman)**
 - **Approved a request for TR-42.12 to develop OM4 multimode fiber requirements based upon initial criteria**

TR-42 Activities

- **TR-42.8 (Optical Fiber Cabling), cont:**
 - **Initial OM4 criteria:**
 - **minimum effective modal bandwidth at 850 nm: 4700 MHz-km**
 - **minimum overfilled modal bandwidth at 850 nm: 3500 MHz-km**
 - **minimum overfilled modal bandwidth at 1300 nm: 500 MHz-km**

TR-42 Activities

- **TR-42.9 (Industrial Infrastructure):**
 - Default ballot of TIA-1005 addressing, “Industrial Cabling” circulating
- **TR-42.11 (Optical Fiber Systems):**
 - TSB-178 “Launch Condition Guidelines for Measuring the Attenuation of Installed Multimode Cabling” approved for publication

TR-42 Activities

- **TR-42.12 (Optical Fibers and Cables)**
 - Did not meet
- **TR-42.13 (Interconnecting Devices and Passive Components)**
 - Did not meet
- **TR-42.15 (Fiber Optical Metrology):**
 - Did not meet

TR-42 Activities

- **TR-42.16 (Grounding and Bonding, previously TR-42.3.1):**
 - **Development of proposed TIA-607-B (Grounding and Bonding) is ongoing**

'568-C Development

- **SP-3-0177-C-2: (pending '568-C.0)**
 - **2nd default ballot will close August 4, 2008**
- **SP-3-4425-RV3-C-2: (pending '568-C.1)**
 - **2nd default ballot will close August 4, 2008**
- **PN-3-4426-RV3-A: (pending '568-C.2)**
 - **2nd PN ballot closes July 23, 2008**
 - **Targeted publication: July 2009**
- **ANSI/TIA-568-C.3**
 - **Approved for publication: Sept., 2007**

Upcoming TIA Meetings

TR-42.7 Interim Meeting

August 5 - 7, 2008

San Francisco, CA

TR-42 Plenary Meeting

October 6 – 10, 2008

Vancouver, CAN

www.tiaonline.org

Pending S.F. Discussions

- **Resolve PN-3-4426-RV3-A comments**
- **Approve TSB 184 for first ballot**
 - **2 hours maximum**
- **Flex time (maximum 1 hour) for:**
 - **Cabling and component balance specification**
 - **Test fixturing**

Thank you

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