TIA TR-42 Liaison to IEEE

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Dallas, TX
**TIA TR-42 Meetings**

- **Oct 2 - 6, 2006 in Portland, OR**
- **Oct 3, 2006 – Joint TR-42.7/IEEE 802.3at meeting in Portland, OR**
- **Liaison letter – Maximum Current Carrying Capacity**
- **4th ballot for TSB-155 (draft 5.0) closed**
- **4th ballot for ‘568-B.2-10 (draft 5.0) closed**
Joint TR-42.7/802.3 at Meeting

- Joint task group meeting
  - Objective: TIA to determine maximum allowable cabling temperature rise due to PoE and justify recommendations
  - Objective: TIA to develop temperature rise versus current tables for cat 5e, 6, and 6A
  - Objective: TIA to determine maximum allowable DCRU in a channel
  - Timeline: ASAP!
The purpose of this letter is to:

1) respond to a series of questions posed by IEEE 802.3 liaison dated Sept 1, 2006

2) update IEEE 802.3 on the development of a TIA project plan and test methodology for developing current carrying capacity limits
TR-42 Liaison Letter

Content note:

1) The liaison letter was unanimously approved by TR-42.7 sub-committee members

2) The liaison letter was unanimously approved by TR-42 committee members

3) Some members are now indicating that there is material in the letter that needs to be discussed further
Proceed to an online review of the liaison letter
Summary of TIA test activities:

1) Evaluate category 5e, 6, and 6A cabling

2) Review data from at least 5 vendors

3) Adopt 10 degrees C as maximum temperature rise limit
   – Equals 4% increase in insertion loss
   – Cabling material lifecycle is reduce by 50%
     (typical lifecycle is 10 to 25 years)

4) Conclusions ready by January 2007
PN-3-0134-C, d5.0

- **TSB-155**
  - 4th ballot (draft 5) closed on Sept 8, 2006
  - 14 Approve, 5 Approve with Comments, 2 Do Not Approve
  - All comments were resolved and this document was unanimously approved for publication pending a final editorial review by committee members
AD10 (category 6A)

- 4th ballot (draft 5) closed on Sept 17, 2006
- 9 Approve, 2 Approve with Comments, 13 Do Not Approve
- An interim meeting for the purpose of ballot resolution is planned for December 6 – 8

- Only the generation of a default ballot could support '568-B.2-10 publication in February of 2007
Availability of Drafts

- Information on how to obtain copies of the published TSB-155 document is forthcoming from TIA
- Draft 5.0 of ‘568-B.2-10 is available for download from the IEEE 802.3an website
Next TIA Meeting

TR-42.7 Interim Meeting
December 6 - 8, 2006
Miami Beach, FL

TR-42 Plenary Meeting
February 5 – 9, 2007
Houston, TX

www.tiaonline.org
Thank you

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