

TIA TR-42 Liaison to IEEE

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March, 2006

Denver, CO

TIA TR-42 Plenary Meetings

- **Jan 30 – Feb 3, 2006 in Palm Springs**
- **Liaison 1 – future cat 5 references**
- **Liaison 2 – maximum current capacity**
- **2nd ballot for TSB-155 closed**
- **2nd ballot for ‘568-B.2-10 closed**
- **‘568-B.2-7-1 (reliability) default closed**
- **‘568-B.1-6 (DC power) resolution cont’s**

TIA TR-42 Elections

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TR-42 Liaison Letter #1

The purpose of this letter is to:

- 1) update IEEE 802.3 on the planned development of the new TIA/EIA-568-C family of Standards**
- 2) request input on whether or not to include category 5 in this next revision of the TIA/EIA-568 Standard**

TR-42 Liaison Letter #1, cont.

“The purpose of this letter is to inform you that TIA TR-42 has started the revision process to the ANSI/TIA-568-C series of Standards. This revision will reorganize the document structure as follows:

TIA 568-C.0: a generic specification

TIA 568-C.1: cabling specifications

TIA 568-C.2: component specifications for copper

TIA 568-C.3: component specifications for optical fiber

TR-42 Liaison Letter #1, cont.

“In the process of revising these documents, it is intended to remove the specifications for Category 5 cabling and components. Category 5 is currently provided in an informative Annex to TIA 568-B.1 and TIA 568-B.2. This Category is being superseded by Category 5e, Category 6 and augmented Category 6 (currently under development). Category 5e is the minimum performance Category recognized by TIA for new data cabling installations, in support of applications such as 1000BASE-T.”

TR-42 Liaison Letter #1, cont.

Requested Action:

“Please let us know if there is a need for IEEE 802.3 to reference Category 5 specifications in the future revision of the TIA 568 standards.”

TR-42 Liaison Letter #2

The purpose of this letter is to:

- 1) provide an update on TR-42's intention to study the maximum current carrying capacity of cabling**
- 2) identify the focus of study as bundled cables and channels**

TR-42 Liaison Letter #2, cont.

“As the result of information provided to TR42.1 during the comment ballot resolution to **Addendum 6: Additional Cabling Requirements for DC Power SP-4425-AD6-E [Draft 6.0] (TIA/EIA-568-B.1-6), a **TR42.7 task group has been formed** to further investigate the cabling maximum current carrying capacity specified at **0.420 A dc per conductor** for all operating temperatures in the Draft 6.0.”**

TR-42 Liaison Letter #2, cont.

“The task group will investigate the impact on the cabling maximum current carrying capacity due to temperature rise in bundled cables as well as the dc balance of cabling channels. The task group will report results during the TR42.7 interim scheduled the week of March 27.”

PN-3-0134-A, d3.0

- **TSB-155**
- **Comment resolution progress**
 - **Reviewed ballot comments**
 - **Approximately 100 technical comments remaining**
 - **Ballot resolution will continue at an interim TR-42.7 meeting scheduled for March 2006**

PN-3-4426-AD10-A, d3.0

- **AD10 (category 6A)**
- **Comment resolution progress**
 - **Reviewed ballot comments**
 - **Approximately 25% complete**
 - **Ballot resolution will continue at an interim TR-42.7 meeting scheduled for March 2006**

SP-3-4426-AD7-1, default

- **AD7 (reliability of connecting hardware)**
- **Comment period closed Feb 2, 2006**
 - **1 “approve with comment”**
 - **2 “do not approve”**
 - **Ballot resolution will begin at the TR-42.7 meeting scheduled for June 2006**

SP-3-4425-AD6-E, d6.0

- **AD6 to '568-B.1 (DC Power)**
- **Comment period closed in June 2005**
 - **Issues related to current capacity and temperature rise remaining**
 - **Draft 7.0 expected to be available in June 2006**
 - **Due to timing, AD6 content may be incorporated into the draft '568-C.0 document or go out for full ballot**

Availability of Drafts

- **Draft 3.0 of TSB-155 is posted to the IEEE 802.3an web site**
- **Draft 3.0 of '568-B.2-10 is posted to the IEEE 802.3an web site**
- **Draft 6.0 of '568-B.1-6 is posted to the IEEE 802.3an web site**

Next TIA Meetings

TR42.7 Interim Meeting

March 28 – 30, 2006

Savannah, GA

TR42 Plenary Meetings

June 5 – 9, 2006

Alexandria, VA

www.tiaonline.org

Thank you

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