Approved by General Counsel

TR-42 Meeting Report

Date: 06/06/08

Location: Providence, RI

Approved: 6/23/08

T# 11046

TR-42 CLOSING PLENARY
MEETING REPORT

Organization: **Engineering Committee TR-42**

Chair: **Herb Congdon —** **Vice-Chair: Bob Jensen — Fluke**
Tyco Electronics (336)255-0713 **Networks (512)514-7760**

Date: **Friday, June 6, 2008**

Time: **Convene at 8:00 AM; adjourn approximately 11:00 AM**

Location: **Hilton Providence**
21 Atwells Avenue
Providence, RI 02903
1-401-831-3900- Direct line
1-401-751-0007 – Fax

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1. **Administrative**
    1.1 Call to Order: The Chair called the meeting to order at 8:00AM.
    1.2 Attendance (Introductions; Roster; Quorum Call): Attendees were allowed to introduce themselves and sign the attendance roster. Quorum was verified by roll call. Attending the meeting were the following individuals.

Company	Name
Belden	P. Kish
	Henry Franc, RCDD
Business Comm. Svcs	M. Michelson
C^2 Consulting	Julie Roy, RCDD
Commscope	M. Shariff
	P. Kolesar
Corning	Jamie Sylva, RCDD
dBi (BICSI)	D. Ballast, RCDD
Erico	Ray Keden, RCDD
Fluke Networks	Bob Jensen, RCDD
Furukawa	L. Marques
Hubbell	S. AbuGhazaleh
Intertek	V. Stafford
	A. Pelletier
MC Communications	C. Diminico

Company	Name
Nexans/Berk-tek	D. Hess
NIS	G. Sexton
ODVA	R. Lounsbury
RTKL	R. Anderson, RCDD
Siemon	V. Rybinski
SMP	S. Vaden
TIA	M. Kramarikova
Tyco Electronics	H. Congdon
Wiremold	R. Emplit

1.3 Agenda Review and Approval: The agenda was modified prior to the meeting by the Chair. This modified agenda (-047c) was unanimously approved.

1.4 Intellectual Property Rights Statement (Early Disclosure): The following was reviewed with the attendees.

TIA's patent policy can be found in the TIA Engineering Manual (4th edition). Participants in the work of the TIA Formulating Group are urged to review this policy. Participants are encouraged to notify TIA of any patents of which they are aware that are related to the practice of a TIA publication early on in the development of the TIA document to reduce the possibility for delays in the development process and increase the likelihood that the draft TIA publication will be approved for publication. Patent searches are not required to comply with the TIA IPR policy. Moreover, the Engineering Manual describes the need for members' disclosure of patents that are essential to practice TIA publications and for members to provide an indication of their willingness to license any known patents.

1.5 Distribution and Numbering of Documents: Documents were posted to the FTP folders. Contributions that came in during the meeting will be posted to the FTP folders.

    1.5.1 Chair's Report; General Items: The Chair mentioned several items as shown on contribution -069a. Of particular interest for the meeting report are the following.

        1.5.1.1. Liaison reports and subcommittee reports should not include any corporate logos.

        1.5.1.2. All participants are reminded that they will need their passports for the October TIA TR-42 meetings in Vancouver, BC, Canada.

        1.5.1.3. Elections for TR-42.4, TR-42.15 and TR-42.16 are expected for the October meetings. These elections will need to be mentioned in the meeting agendas for these subcommittees. Nominations should be sent to Stephanie Montgomery at TIA along with experience summaries and letters of support.

        1.5.1.4. Sterling Vaden (SMP), Jonathan Jew (J&M Consulting) and Julie Roy (C^2 Consulting) received TIA Certificates of Appreciation for their efforts in TR-42 at the opening plenary. All three were congratulated and received a round of applause.

        1.5.1.5. Marianna Kramarikova (TIA) was presented with an official letter of appreciation from TR-42 in appreciation for her dedicated efforts in service of TR-42 while working at TIA. The TR-42 Plenary members wished her well in her future endeavors and gave her a well-deserved round of applause.

        1.5.1.6. Donna Ballast (dbi) mentioned that the time is running out for submitting comments to NFPA for the NEC revision. Participants were requested to submit their comments to Donna, or ask Donna for help in submitting comments.

2. Old Business

    2.1 Liaison letters received since the opening plenary: One liaison letter was received during the week from TR-41.7 regarding their interest in the TR-42.3.1

project to revise J-STD-607. **It was unanimously agreed to allow the Chair to respond formally to TR-41.7 without review in the plenary.**

2.2 Subcommittee reports and Plenary action

2.2.1 TR-42.1 – Commercial Building Cabling – Henry Franc: Henry reported that TR-42.1 successfully closed the default ballots on 568-C.0 and 568-C.1 - both of which will be issued for second default ballot. An interim meeting for TR-42.1 is expected to address the default ballots. Several contributions and discussions on the data center standard concluded, and TR-42.1 proposed a project to create an addendum to the TIA-942 standard for Additional Media and Guidelines for Data Centers (-073). After some modifications (-073b), the Plenary unanimously approved the project. It was noted that this addendum could be considered a "green" project.

2.2.2 TR-42.2 – Residential Telecommunications Infrastructure – John Pryma: Ray Emplit reported for John Pryma. TR-42.2 successfully closed the default ballot and resolved all comments editorially on the first addendum to 570-B, and made a proposal to publish the addendum. The Plenary unanimously approved the publication. TR-42.2 responded to the "green" projects request, saying that, after reviewing the documents, they did not find much opportunity at this time that would qualify as a "green" project within their scope (residential), but encouraged the members to provide any input to the "green" task group in TR-42.3. TR-42.2 is trying to coordinate a joint meeting with the Consumer Electronics Association (CEA), and is scheduling a joint TR-42 subcommittee meeting in October to continue discussions on the multi-dwelling/multi-tenant unit (MDU/MTU) opportunity.

2.2.3 TR-42.3 – Commercial Building Telecommunications Pathways and Spaces – Ray Emplit: Ray reported that TR-42.3 modified some text in the draft addendum for the draft TIA-1005, but took no official action on the disposition of this document. TR-42.3 will be opening a project to revise the 569-B Standard and that document will be issued as a mock ballot before the October meeting. TR-42.3 proposed that the current TR-42.3.1 Task Group on bonding and grounding should be elevated to a subcommittee effective in the October meeting. The Plenary unanimously approved the motion, and assigned the "TR-42.16" designation for the subcommittee. It was noted that this subcommittee will need to schedule elections in October. In other activities, the Conduit Fill Task Group proposed some changes to the draft 569-C document regarding the removal of Table 9 and the annex on pulling cable, and the insertion of some explanatory text. TR-42.3 also reviewed some proposed changes to the temperature and humidity/dewpoint ranges for spaces and proposed a TIA (not ANSI) project to create an addendum to 569-B on Temperature and Humidity Requirements for Telecommunications Spaces. The Plenary unanimously approved the project (-091) and noted that this project would classify as a "green" project. Also, TR-42.3 formed a task group to look at "green" projects.   Ray Keden was appointed Chair and Masood Shariff was appointed as Vice-chair of the task group. The Task Group reported they are willing to serve other subcommittees in this capacity as well.

2.2.4   TR-42.4 - Outside Plant - Henry Franc: Henry reported that the TR-42.4 subcommittee will be reactivated in October to have elections and to decide on the disposition of the 758-A standard.

2.2.5   TR-42.5 – Telecommunications Infrastructure Terms and Symbols – Paul Kish: Paul provided a brief report of the TR-42.5 meeting, saying it was a good review of several comments to the working dictionary resulting in the deletion of some unused terms, some editorial corrections, and some updating of existing terms. Again, he requested other subcommittee chairs to review the working dictionary and provide him comments on any similar changes that should be considered.

2.2.6   TR-42.6 – Telecommunications Infrastructure Administration – Steve Huffaker: Henry Franc reported for Steve Huffaker. TR-42.6 will issue a default ballot with two technical items for the Addendum 1 to 606-A document. TR-42.6 proposed a liaison letter to the US TAG supporting the administration method most similar to that of 606-A (-070). The plenary unanimously approved the liaison letter.

2.2.7   TR-42.7 – Telecommunications Copper Cabling Systems – Valerie Maguire: Val reported that TR-42.7 had a lot of success working on the 568-C.2 document, successfully trimming the document size from over 400 pages to just over 250 pages through the process of the ballot comment resolution, which started in March and was completed this week. TR-42.7 will be issuing a 30-day PN ballot for 568-C.2, which will keep them on track to publish in June of 2009. There were four proposed projects from TR-42.7. TR-42.7 proposed a project to create a TSB for power delivery over balanced twisted-pair cabling (-076). The plenary unanimously approved the power delivery TSB project with minor modifications to the project request (-076a). TR-42.7 approved the creation of a project for an addendum to 568-C.2 on additional balance and coupling attenuation requirements for balanced twisted-pair cabling. The Plenary unanimously approved the 568-C.2 addendum on balance project (-078). TR-42.7 proposed a new standard on field tester instruments for balanced twisted-pair cabling (-080). David Hess noted that TR-42.7 is required by the Engineering Manual (clause 12.4) to evaluate existing IEC documents (61953-1) as part of the project. The Plenary approved the project for a new standard on field testers for balanced twisted-pair cabling with minor changes (-080a) by an 11 in favor, 2 opposed and 5 abstain vote. TR-42.7 proposed a project to create TSB compiling the existing information on Category 5 (-082). There was a lengthy discussion in the plenary, and the motion to approve the project failed by a 6 in favor, 4 opposed and 7 abstain vote (a two-thirds majority is required). In summary, the Plenary felt that the existing documentation on Category 5 (specifically, TIA-568-B.1 and TIA-568-B.2) were sufficient references for Category 5 and that a TSB was not necessary, nor would it be useful as a reference as a purely informative document. After more discussion, the Plenary approved a motion to "recommend to TR-42.7, if retaining Category 5 is desired, that it be kept in the developing 568-C.2 document in an informative annex" by a 10 in favor, 2 opposed and 6 abstain vote. TR-42.7 proposed a liaison letter for the

USTAG and TR-42.9 regarding balance requirements for the three electrical MICE classifications (-083). It was noted that including TR-42.9 was not necessary in the letter. After some minor edits (-083a), the Plenary unanimously approved the liaison letter. TR-42.7 proposed a liaison letter (-086) to IEEE in support of the developing PoEP application. The Plenary unanimously approved the liaison letter with minor edits (-086a). TR-42.7 will have an interim meeting August 5-6-7 to work on their projects, and expects to have a December interim meeting as well. TR-42.7 proposed modifying the 2009 meeting schedule to host four meetings instead of three. A motion (V. Maguire) and second (C. Diminico) to schedule four meetings in 2009, was first changed by a friendly amendment that those four meetings would be Feb-May-Aug-Nov, was subsequently changed by friendly amendment to the final motion, which was for the Chair to prepare a presentation for what a four-meeting schedule would look like (maybe with the August meeting as a "no-plenary", "interim" meeting), to present that at the opening plenary, and to decide on the meeting schedule at the closing plenary meeting in October and this motion was unanimously approved. The plenary noted the benefits to TR-42.7 of such a change, and noted the consequences to other subcommittees. Since some of the subcommittees were not present, the decision to postpone a decision on the schedule seemed appropriate. It was also noted by the plenary that TIA may not be as responsive over the next several meeting cycles due to the departure of our TIA representative and that compressing the schedule may not result in the expected improvement in document timelines. TR-42.7 reported on the results of their discussion of "green" projects and submitted the following.

2.2.7.1.   The TR-42.7 subcommittee will draft a liaison to IEEE requesting information on pending "green" applications and how cabling can impact these initiatives (October, 2008)

2.2.7.2.   TR-42.7 suggests that data centers be a key target for further investigation, as it was felt this offered the best opportunity in the near future.

2.2.7.3.   TR-42.7 requests more information on TIA's scope of work on this item (i.e. Is this cabling related? Is this meeting related?...). The Chair responded that this is intended to be related to documents and activities under the scope of TR-42, and not intended to be a discussion of how TR-42 can conduct business in a more "green" manner, although suggestions for that are always welcome.

2.2.8   TR-42.8 – Telecommunications Optical Fiber Cabling Systems – Bob Jensen: Bob reported that TIA has submitted the 568-C.3 document to ANSI and is waiting for document approval, which is expected any day now. TR-42.8 reported that they are in favor of establishing the liaison with Fibre Channel (INCITS Fibre Channel - T11). TR-42.8 reported they approved a request for TR-42.12 to develop a fiber specification for "OM4" fiber, and that this request will be handled between the chairs of TR-42.8 and TR-42.12. TR-42.8 collected a list of subjects for consideration on the request for "green" projects as follows:

2.2.8.1.   Fiber networks may reduce power consumption (on a per-port basis for

the same application) so it might be worth making a mention of this in the "media selection" clauses of TR-42 documents.

2.2.8.2.   Fiber networks may be constructed with less raw materials (by weight and volume) for an equivalent number of users/ports so it might be worth making a mention of this in the "media selection" clauses of TR-42 documents.

2.2.8.3.   Fiber networks may be constructed with less cabling volume (for an equivalent number of users/ports) resulting in less obstruction of air flow and less impact on environmental air systems so it might be worth making a mention of this in the "media selection" clauses of TR-42 documents.

2.2.8.4.   Fiber networks support "building automation systems", which can be used to control and automate building/facility support services such as lighting, security, HVAC, etc. As these building automation systems are currently recognized as being eligible for LEED credits, it may be worth advertising the BAS standard as one way to support systems for LEED credits.

2.2.9   TR-42.9 – Industrial Telecommunications Infrastructure – Bob Lounsbury: Bob reported that TR-42.9 will be issuing a default ballot for TIA-1005 with 29 technical comments, or for SP ballot if TIA or ANSI deem 29 comments as too many. The subcommittee did not have anything to offer on the request for "green" projects.

2.2.10   TR 42.11 (formerly, FO-4.1), Optical Fiber Systems, Paul Kolesar: TR-42.11 successfully closed the ballot comment resolution to the TSB-178 document and proposed releasing the document for publication. The Plenary unanimously approved the publication of TSB-178. TR-42.11 reviewed the status of several other documents, some of which TR-42.11 will be withdrawing. TR-42.11 successfully reaffirmed the OFSTP-7 standard, and issued a default ballot for FOTP-203A. TR-42.11 expects to have some interim conference calls before the October meeting.

2.3 Proposed changes to TR-42 Operational Guide

2.3.1 Proposal for Task Group Operational Guideline: This document has been posted for some time with no comments. The Chair asked for any comments to be submitted before the October meeting so we can decide on an appropriate disposition of this document.

2.3.2 Proposal for Editor Guidelines Manual: The editor of the OpGuide (J. Roy) is still collecting comments. The Chair asked for any comments to be submitted before the October meeting so we can decide on an appropriate disposition of this document.

2.4 Program of Work

2.4.1 Reminder that Vice-chairs are responsible for maintaining the entries for their SC: The Vice-chairs are to be reminded.

3.   New Business & Output Documents

3.1 New scope for TR-42: The merger of the former FO-4 subcommittees necessitates a modification of the TR-42 scope. An e-mail exchange among the subcommittee chairs resulted in a proposal, which was unanimously approved as the new scope.

The new scope, subject to TIA Technical Committee approval, will be, "The TR-42 Engineering Committee develops and maintains telecommunications Standards for balanced twisted-pair copper, optical fiber, and other telecommunications cabling systems and components, infrastructure topologies, field and laboratory qualification, installation requirements, pathways and spaces, administration, and related network technology specifications."

3.2 Establishing liaison with Fibre Channel: The Plenary unanimously agreed to approve the formation of a liaison with Fibre Channel, and for Terry Cobb and Doug Coleman to share that responsibility. It was unanimously agreed to allow the Chair to respond formally to the liaison without review in the Plenary.

3.3 Output documents (other than those approved during Subcommittee reports)
    3.3.1 Contributions to US TAG, IEEE: None.

3.4 Green Initiatives: The Chair thanked the subcommittees for their time and efforts collecting their thoughts and ideas for "green" projects. The Chair will compile the information and prepare a submission for TIA. A request for the Chair to distribute that to the TR-42 chairs and post that compilation to the TR-42 FTP folders will be honored.

3.5 Other: None.

3.6 Action items derived from this meeting: Action Items from this meeting are summarized in the table below. All assignees are encouraged to complete their action items before the October meeting.

4. Next Meeting (and interim meetings)

4.1 Next meeting schedule: Bob Jensen proposed a schedule for the TR-42 meeting in October. After a few modifications, and recognizing that some subcommittees were not present for the review, Bob agreed to distribute the proposed schedule to the subcommittee chairs for review.

4.2 Subsequent meeting locations
    4.2.1 October 6-10 in Vancouver, BC: The meeting location and accommodations are set. All attendees from the US are reminded to bring their passports.

5. Adjourn: The Chair proposed a 10-minute extension of quorum at 10:46 AM - there was no objection. Meeting was adjourned at 11:06AM

This meeting was conducted in accordance with the TIA Engineering Manual.

Action Item Number	Assigned to:	Action Item:
AI-42-2008-001	Chair	Respond to liaison letter from TR-41.7
AI-42-2008-002	B. Jensen M. Kinard	Relay TR-42.8 request for an OM4 fiber specification to TR-42.12
AI-42-2008-003	V. Maguire	Evaluate existing IEC documents (61953-1?) as part of the project for a new standard on field testers for balanced twisted-pair cabling.
AI-42-2008-004	V. Maguire H. Franc R. Emplit Chair	Draft text answering two questions ("What problem is this document trying to solve?" and "Who is this document going to help?") for the new projects approved by the plenary (-073, -076, -078, -080, -091) to the Chair for submission to TIA.
AI-42-2008-005	Chair	Compile the "green" projects information, share with the TR-42 chairs, post to the FTP folders, and submit to TIA.
AI-42-2008-006	Chair	Finalize and issue the liaison letter on balance for E_1, E_2 and E_3 to the US TAG (-083).
AI-42-2008-007	Chair	Finalize and issue the liaison letter on PoEP to IEEE (-086).
AI-42-2008-008	Chair V. Maguire	Prepare a presentation showing what a four-meeting schedule for 2009 would look like for the October opening plenary
AI-42-2008-009	Chair	Add an agenda item to decide on the 2009 schedule at the October meeting.
AI-42-2008-010	All S/C Chairs	Review working dictionary and provide comments to Paul Kish
AI-42-2008-011	H. Franc L. Cartellieri M. Harger	Post agenda that include the scheduled elections for the subcommittee meeting. Nominations are to go to Stephanie Montgomery.
AI-42-2008-012	J. Pryma	Complete Publication Authorization Form and process for Addendum 1 to 570-B; Draft text answering two questions ("What problem is this document trying to solve?" and "Who is this document going to help?") and submit to TIA.
AI-42-2008-013	All	Submit comments for the NFPA review of the NEC to Donna Ballast, or seek her assistance in submitting comments.
AI-42-2008-014	H. Franc	Complete Existing Project Authorization Form and process for Addendum 1 to 942 (-073)
AI-42-2008-015	Chair M. Harger	Prepare TIA for a new subcommittee, TR-42.16, effective October 2008.
AI-42-2008-016	R. Emplit	Complete Existing Project Authorization Form and process for Addendum 1 to 569-B (-091)
AI-42-2008-017	All S/C Chairs and Editors	Review most recent revision of working dictionary and verify proper use in draft documents and ballots.

AI-42-2008-018	Chair	Finalize and issue the liaison letter to the US TAG on administration proposals (-070)
AI-42-2008-019	V. Maguire	Prepare a liaison letter to IEEE requesting information on pending "green" applications and how cabling can impact those initiatives.
AI-42-2008-020	P. Kolesar	Complete Publication Authorization Form and process for TSB-178; draft text answering two questions ("What problem is this document trying to solve?" and "Who is this document going to help?") and submit to TIA
AI-42-2008-021	V. Maguire	Complete New Project Authorization Forms (-080) and Existing Project Authorization Forms (-076, -078) for approved projects
AI-42-2008-022	All S/C Chairs	Provide comments to proposed OpGuides (task force and editor guidelines) to J. Roy.
AI-42-2008-022	All S/C Vice-chairs	Provide updates to TR-42 scope of work spreadsheet.
AI-42-2008-023	Chair	Submit new TR-42 scope to TIA Technical Committee for approval
AI-42-2008-024	Chair V. Maguire	Respond to Fibre Channel approving liaison request; include this in the report to IEEE 802.3
AI-42-2008-025	Vice-chair	Distribute proposed October meeting schedule to TR-42 chairs for review
AI-42-2008-026	All S/C Chairs	Remind participants to bring passports to October meeting.

AVAILABILITY OF MEETING DOCUMENTS:
All meeting attendees are instructed to download contributions and other meeting documents from the TIA TR42MAIN FTP site (http://ftp.tiaonline.org/TR-42/) before the meeting. For information on how to access the FTP site, contact TIA (Stephanie Montgomery - smontgomery@tiaonline.org).

NEW CONTRIBUTIONS:
Contributions shall use the approved templates and specific wording provided by TIA. Contributions affecting a document are to include a TIA cover sheet, proposed text to be included in the document, and the rationale/substantiation for the contribution. File templates are available on the TR42MAIN FTP site for download. All contributions shall be submitted to the electronic document coordinator (EDC). All electronic files shall be provided in either Adobe Acrobat (*.PDF); Microsoft Word (*.DOC); Microsoft PowerPoint (*.PPT); or in Microsoft Excel(*.XLS). Compressed files shall be accessible using PKUNZIP or WINZIP (*.ZIP).

Early submittal and posting of contributions for consideration in meetings is highly encouraged. Contributions shall be submitted to the EDC as soon as possible and then posted to the FTP folders by the EDC as soon after receipt as possible, preferably within one business day. Notification of the posting shall be made to the group's email reflector list by the EDC within one working week of the posting. All contributions shall be posted to the appropriate location on the TIA FTP site <u>no later than 12:00 noon EST on the Monday preceding the week of the meeting in which the contribution is to be considered</u> (example: if the meeting will be held on Thursday the 20th, the contributions shall be posted by noon on Monday the 10th).

LATE CONTRIBUTIONS:
Contributions not posted as described in the timing above shall be classified as "late contributions." They may be considered in the meeting to which they are addressed provided that an appropriate motion receives 50% or greater of a vote.

All late contributions shall be provided to the EDC and to the committee members on a memory stick or CD-ROM along with sufficient paper copies for those members without a PC.

All late contributions shall be posted to the TIA FTP site no later than one week following the meeting in which they are considered. Notification of the posting shall be made to the group's email reflector list by the EDC.

DOCUMENT NUMBERS:
All contributions are assigned a document number. To obtain a document number before the meeting, provide your name, affiliation, contribution title and corresponding agenda item to the EDC.

Questions and Comments on this agenda should be submitted in writing to:

Herb Congdon; Chair, TR 42	Ph: 828-464-2165	hvcongdon@tycoelectronics.com
Bob Jensen; Vice-chair, TR-42	Ph: 512-514-7760	bjensen@swbell.net
TR-42 EDC and Secretary: Julie Roy	Ph: 828-461-7796	c2consulting@charter.net