



**TELECOMMUNICATIONS  
INDUSTRY ASSOCIATION**

**HEADQUARTERS**

2500 Wilson Boulevard  
Suite 300  
Arlington, VA 22201-3834  
+1.703.907.7700

**D.C. OFFICE**

10 G Street, N.E., Suite  
550 Washington, DC 20002  
+1.202.346.3240 MAIN  
+1.202.346.3241 FAX

[tiaonline.org](http://tiaonline.org)

## **Approved by General Counsel**

TR-41 Meeting Report

Date: 02/14/10

Location: Estero, FL

Approved: 03/04/10

Telecommunications Industry Association  
Standards and Technology Department

Engineering Committee TR-41  
User Premises Telecommunications Requirements

Meeting Report

Chair: Stephen R. Whitesell  
Vice-Chair: (vacant)  
Secretary: Phillip Havens

Date: February 12, 2010  
Venue: Embassy Suites  
City: Ft Myers (Estero), FL

---

**1. Call to Order and Opening Business**

**a. Call to Order and Introductions**

Chair Steve Whitesell called the meeting to order at 8:00 am, and the attendees introduced themselves.

**b. Roll Call and Quorum**

Roll call was taken and a quorum was declared with 6 of 8 voting member companies represented.

**1) Quorum Members or Alternates Present**

AST – James Bress

Cisco – Tim Lawler

Littelfuse – Phillip Havens

UL – Randy Ivans

Uniden – Al Baum

VTech – Steve Whitesell

**2) Quorum Members Absent**

CenturyLink – Amar Ray

Plantronics – Allen Woo

**3) Others Present**

ACTA – John Bipes

Industry Canada – Efrain Guevara

Industry Canada – Mathew Mulvihill

TIA Staff – Ronda Coulter (via conf call)

TIA Staff – Victoria Mitchell (via conf call)

**c. Review of Notice for Participation**

The Chair brought the attention of meeting participants to the following Important Notice for Participation as found in the TIA Engineering Manual:

Participation in, or attendance at, any activity of a TIA Formulating Group or any sub-element thereof, constitutes acceptance of and agreement to be bound by all provisions of the TIA Engineering Manual and permission that all communications and statements, oral or written, or other information disclosed or presented, and any translation or derivative thereof, may without compensation, and to the extent such participant or attendee may legally and freely grant such copyright rights, be distributed, published, and posted on TIA's web site, in whole or in part, on a non-exclusive basis by TIA or TIA's licensees or assignees, or as TIA directs. Exceptions to the foregoing may be granted or permitted in writing to the Chair of the Formulating Group by the head of TIA's Standards Program on a case-by-case basis.

**d. Review and Approve Agenda**

The agenda was submitted for review and approved without changes. During discussions later in the meeting, a question was raised about what obligations a Formulating Group has in going forward with a decision it has made (e.g., send a document to ballot or publication) if the TR-41 Plenary does not concur. This topic was added to the Agenda under New Business as Item 6.b.

**e. TIA Patent Policy**

The Chair made the attendees aware of the following statement concerning TIA's Patent Policy and the desire for early disclosure of patents, the use of which may be essential to any standard or other document being developed for publication:

TIA's Intellectual Property Rights Policy can be found in Statements of Policy and subsequent sections of the TIA Engineering Manual. Participants in the work of the TIA Formulating Group are urged to review the appropriate Sections. Individual participants are encouraged to notify TIA of any patent(s) or published pending patent application(s) of which they are aware that may be essential to the practice of a proposed TIA Publication, including requirements introduced through normative references, early on in its development to reduce the possibility for delays in the development process and increase the likelihood that the proposed TIA Publication will become a Standard. However, a Patent Holder who has provided TIA with the statement set forth in ANNEX H with respect to the applicable proposed TIA Publication need not (but may elect to) identify its specific patent(s) or published pending patent application(s) that may be essential to the practice of the proposed TIA Publication in question. Patent searches are not required to comply with the TIA Intellectual Property Rights Policy.

No disclosures were made.

**f. Chair's Remarks**

Chair Steve Whitesell spoke about TIA staff changes. Stephanie Montgomery has taken a new position as Director of Technology and Business Development and will no longer be involved with TR-41 directly. She will be missed by TR-41 members. Victoria Mitchell will be taking her place. Ronda Coulter will be continuing as the main support person for TR-41.

The IPR and Notice of Participation statements have changed slightly as a result of revisions made in the 5<sup>th</sup> Edition of the TIA Engineering Manual that was published in October 2009. New contribution cover sheets referencing this new edition of the Engineering Manual have been uploaded to the FTP site, and all contributions going forward should use them.

The Chair requested feedback regarding the venue. The overall response was to continue using Embassy Suites (Internet access, cook-to-order breakfast, Manager's reception were noted as positive points).

**g. TIA Staff Remarks**

Chair Steve Whitesell indicated Victoria Marshall and Ronda Coulter from TIA Staff were expected to join the meeting via conference call at about 9:30 am. They would make their remarks at that time.

When they did join the meeting, Victoria introduced herself and gave a brief summary of the organization changes that have taken place (see Chair's Remarks above). A new balloting system was scheduled to go on-line this coming weekend, but it may be delayed a few days because of the current snow storm. An announcement will be broadcast to TIA members via email when it occurs.

**2. Previous Meeting Report**

The August Teleconference Meeting Report was not available for the November meeting so it required approval at this meeting. Chair Steve Whitesell pointed out an unintended copy and paste error in the version of the meeting report that has been posted (TR41-09-11-003-L), and offered an LR1 version for the Committee to consider. The correction was to delete three sentences that had been inadvertently copied from the first bullet under Old Business Item 5.b, Clean-up of Projects from TR-41.4, and copied under Item 3.b, Subcommittee Report from TR-41.7, into the third bullet under Project Status. The Chair asked if there was any objection to accepting the Meeting Report with this correction so noted. There was none, and the report was approved.

The November Meeting Report from Las Vegas was then reviewed and approved without change.

### 3. Subcommittee Reports and Requests

TR-41's subcommittees and working groups met at various times from Monday through Thursday.

#### a. TR-41.3 – Analog and Digital Wireline Terminals – Al Baum

Subcommittee TR-41.3 met on Thursday afternoon, February 11, 2010. Its various working groups met from Monday through Wednesday and on Thursday morning.

Project Status: The following is a summary of the status of each Project assigned to TR-41.3.

- SP-3-0219-RV1, Handset Magnetic Measurement Procedures and Performance Requirements (to become ANSI/TIA-1083-A)

Current Status: The following issues were discussed and addressed:

Contribution from Panasonic and AST to change the values of the frequency response masks due to small errors found relative to what was intended to be in TIA-1083 to follow what is published in TIA-504. Suggested changes were accepted.

Discussion continuing from the previous (Las Vegas) meeting regarding which codec should be used for testing for compliance to TIA-1083-A. Agreed to allow testing any one supported codec (narrow band or wide band). Added informative text indicating that it is expected the telephone will pass with all supported codecs.

Discussion regarding definitions of dBm0 and related concepts of dBFS and dBov. New wording was developed and reviewed with IEEE SMEs with agreement by all.

Some technical update is required regarding codec values for test signals and a few other areas. Document could be ready for ballot if all editorial work is completed and reviewed.

TR-41.3.9 requested TR-41.3 to discuss urgency to ballot and determine if an interim meeting is required to vote TIA-1083-A out for ballot, or provisionally approve a ballot in the current meeting after editorial cleanup of the draft document.

Target Completion Date: 08/2010

- PN-3-4350.000-RV4, Overview of Performance Standards for Analog Telephones (to become TIA-470.000-D)

Current Status: The ballot for PN-3-4350.000-RV4 closed on 12-21-09. There were 9 Approve, 1 Abstain, and 9 ballots were not returned. TR-41.3 voted to submit the document to TIA for publication.

Target Completion Date: 05/2010

Plenary Action Requested: TR-41.3 requests concurrence from TR-41 to submit PN-3-4350.000-RV4 to TIA for publication.

Plenary Action Taken: Unanimous concurrence.

[At this point, Jim Bress raised a question about what responsibility a Formulating Group such as TR-41.3 would have to go ahead and act on its decision to publish the document in the event that the TR-41 Plenary did not concur. See Item 6.b under New Business for the discussion.]

- SP-3-4350.120-RV3, Speakerphone Acoustic Performance Requirements for Analog Telephones (to become ANSI/TIA-470.120-C)

Current Status: The ballot for SP-3-4350.120-RV3 closed on 12-28-09. There were 11 Approve, 2 Approve with Comments, 1 Abstain, and 5 ballots were not returned. The WG reviewed and resolved all ballot comments and voted to request TR-41.3 to submit the document to TIA for publication. If TR-41 concurs on publication, the TR-41.3.10 WG will become inactive.

Target Completion Date: 05/2010

Plenary Action Requested: TR-41.3 requests concurrence from TR-41 to submit SP-3-4350.120-RV3 to TIA for publication.

Plenary Action Taken: Unanimous concurrence.

- SP-3-4350.210-RV4, Resistance and Impedance Performance Requirements for Analog Telephones (to become ANSI/TIA-470.210-D)

Current Status: Document has been submitted to TIA for publication.

Target Completion Date: 02/2010

- SP-3-4350.310-RV4, Cordless Telephone Range Measurement Procedures (to become ANSI/TIA-470.310-D)

Current Status: Document has been submitted to TIA for publication.

Target Completion Date: 02/2010

- PN-3-4350.330-RV3, Telephone Answering Devices (to become TIA-470.330-C)

Current Status: The Working Group reviewed and approved the submissions from VTech. The draft document was reviewed and appropriate changes and additions were included.

Two more contributions from VTech on Parallel Disconnect and Annex-A are expected in the next meeting. AST lab will also provide a contribution on DTMF Talk-off and Talk-down.

Target Completion Date: 08/2010

- PN-3-4705.000-RV1, Overview of Acoustic Requirements for Wideband Digital Wireline Telephones (to become TIA-920.000-A)

Current Status: Letter ballot ended May 6, 11 Approve with no comment, 3 Approve with comment, 5 Abstain with no comment and 9 no-returns. No negative vote was received. All comments received were editorial and were accepted during the meeting. Plan to publish the document as a TIA standard together with TIA-920.110-A and TIA-920.130-A when TIA-920.110-A and TIA-920.130-A are ready. After it is published as TIA standard the group may apply Industry Ballot for this standard to make it as an ANSI/TIA standard.

Target Completion Date: 08/2010

- PN-3-4705.110-RV1, Transmission Requirements for Wideband Digital Wireline Telephones with Handsets (to become TIA-920.110-A)

Current Status: New contributions received from Glenn Hess of MWM and Jim Bress of AST Technology Labs, Inc. regarding wideband codecs and dBm0 references. The meeting addressed the contributions in detail. The major addition of the contributions to the standard are: consider G.722 is one of the major wideband codecs as L16-256. The reference dBm0 will be -9 dBFS. It was -3.17 dBFS originally. Consequently, modified definitions of dBm0, dBFS and dBov of the standard.

Plan to publish the document as a TIA standard together with TIA-920.000-A and TIA-920.130-A after the second Letter Ballot passes. After it is published as TIA standard the group may apply Industry Ballot for this standard to make it as an ANSI/TIA standard.

Target Completion Date: 08/2010

- PN-3-4705.120-RV1, Transmission Requirements for Digital Wireline Speakerphones (to become TIA-920.120-A)

Current Status: Work on this project is delayed until the handset and headset document are completed.

Target Completion Date: 11/2010

- PN-3-4705.130-RV1, Transmission Requirements for Wideband Digital Wireline Telephones with Headsets (to become TIA-920.130-A)

Current Status: No discussion took place at this meeting on this document. The plan is to incorporate all the relevant changes made in PN-3-4705.110-RV1 at this meeting to PN-3-4705.130-RV1”.

Plan to publish the document as a TIA standard together with TIA-920.000-A and TIA-920.110-A after the second Letter Ballot passes. After it is published as TIA standard the group may apply Industry Ballot for this standard to make it as an ANSI/TIA standard.

Target Completion Date: 08/2010

- PN-3-4159-RV1, Automatic Stutter Dialtone Detection Performance (to become ANSI/TIA-855-A)

Current Status: Waiting for editorial cleanup and submission of draft for Industry Ballot.

Target Completion Date: 08/2010

Additional Information: TR-41.3 would like to provide the following additional information.

- TR-41.3.9 and TR-41.3.3 request to hold a joint session on Monday morning to discuss the common items regarding the digital interface.

**b. TR-41.7 – Environmental and Safety Considerations - Randy Ivans**

Subcommittee TR-41.7 met on Thursday afternoon, October 11, 2010. Its TR-41.7.1 Working Group met on Thursday morning.

Project Status: The following is a summary of the status of each Project assigned to TR-41.7.

- PN-3-0339, Ethernet First Mile Overvoltage Tests

Current Status: Last meeting we requested that this project be kept open at the request of a member. We were hoping for contributions but did not receive any. Although we were expecting to close this project after this meeting, changes in the ATIS committee (Phillip Havens is not attending NEP meetings anymore so we lost our liaison) that originally had an interest in similar technologies make it desirable to go another meeting cycle to review the industry interest and see if any contributions come in.

Target Completion Date: 05/2010

Plenary Action Requested: Requesting concurrence to keep this open one more meeting cycle to review status of possible ATIS committee and see if there is any interest in TR41.7 pursuing. If not we will close the project next meeting.

Plenary Action Taken: The Chair noted we have been going “one more meeting” for several meetings, but said he did not believe this was something that required Plenary concurrence.

- PN-3-0340, Telecom Circuit Overcurrent Protectors Application Guide

Current Status: This application guide was approved by the plenary at the last meeting to go to committee ballot. Conflicting priorities on the chair’s part delayed this action. The chair expects to get this out to ballot 1Q 2010 before the next meeting.

Target Completion Date: 05/2010

- PN-3-xxxx, Protection of Home Networking Systems related to SmartGrid Technologies (adjust project name as appropriate)

Current Status: A project was approved last meeting by the plenary but it has not been opened yet. The chair will open a project for this work. Al Martin provided the TR41.7 committee a draft of the proposed standard for initial review. He provided an overview and it was decided that members carefully review the document before the next meeting and provide comments in the form of edited text (strikethrough/underline) for consideration at the

next meeting. Since this is a very “current” topic, we would like to be able to get the document out for ballot after the next meeting.

Target Completion Date: 11/2010

- PN-3-3210-RV2, Radio Frequency Immunity Requirements (to become TIA-631-B)

Current Status: Steve Whitesell provided a contribution to address all of the issues previously identified for this revision. These included revision of the scope, complete updating of all references, and an informative annex to address devices other than those with handsets. Steve will be updating the contributors list if he can find information on the original contributors to the document. With this license for Steve to make this update, the document was reviewed by TR41.7 and unanimously approved to go to ballot.

Target Completion Date: 08/2010

Plenary Action Requested: TR41.7 asks for concurrence to go to ballot once the contributor updates are made.

Plenary Action Taken: Unanimous concurrence.

Additional Information: TR-41.7 would like to provide the following additional information.

- At the request of the US Technical Advisory Group for the international TC108 committee, TR41.7.1 reviewed a proposal to develop power cross requirements for an IEC Technical Standard. The document was based on the power cross requirements in UL60950-1, GR-1089 and a number of ITU documents. The document was reviewed and recommendations developed that the chair will present to the US TAG for their meeting in March.

Plenary Action Requested: TR41.7 requests concurrence to provide a report of TR41.7.1's review to the US TAG.

Plenary Action Taken: Unanimous concurrence.

- TR41.7.1 began a review of the now published IEC 62368-1 standard that will form the basis for the next generation UL/CSA standard covering telecom, ITE and audio/video equipment. We provided Phillip Havens, who serves as TIA Representative to the UL/CSA Technical Harmonization Committee on this project, with input on current North American deviations to UL60950-1 that we would like to see carried over to the new standard. Acoustic requirements for telephones and power cross were top on the list. The WG agreed that part of our responsibility will be to “translate” these into the new language of Hazard Based principles.

In addition we started a list of research / review items that the WG believes need attention to make sure they are adequately covered in the new standard. The WG will be carefully reviewing these and any additional items that are brought to our attention. For example, it is not clear if HB (horizontal burn) enclosures would be permitted for plain old telephones, if impulse testing will be permitted as an alternative to dielectric withstand testing or if common mode surge protection will be permitted for some communications circuits.

**THIS STANDARD WILL AFFECT THE WAY TELECOM EQUIPMENT IS DESIGNED, MANUFACTURED AND TESTED IN THE FUTURE!**

The telecommunications industry needs to take notice and participate in the careful review of this document. TR41.7.1 and TIA's representative on the THC offer the best resource for the telecom industry to make sure requirements and deviations critical to the industry are included in this standard.

### c. **TR-41.9 – Terminal Attachment Programs – Phillip Havens**

Subcommittee TR-41.9 met on Wednesday, February 10, 2010. Its 41.9.1 Working Group met on Tuesday.

Project Status: The following is a summary of the status of each Project assigned to TR-41.9.

- SP-3-0016-RV2, Technical Criteria for Terminal Equipment to Prevent Harm to the Telephone Network (to become ANSI/TIA-968-B) Errata Sheet

Current Status: Need to understand how to get this sent to the ACTA (contribution TR41.9-09-011-013R1 is ready)

Target Completion Date: Now

Plenary Action Requested: Send to the ACTA

Plenary Action Taken: Chair Steve Whitesell to determine proper format for publication.

- PN-3-0017-RV2, TSB-129-B Telecommunications - Telephone Terminal Equipment - U.S.Network Connections Regulatory Approval Guide

Current Status: Actively working.

Target Completion Date: 08/2010

- PN-3-3602-RV4, Rationale and Measurement Guidelines for TIA-968, (to become TSB-31-D)

Current Status: Actively working.

Target Completion Date: 02/2011

- PN-3-4124, Responses to Part 68 and TIA-968 Questions (On-going effort)

Current Status: Adding new FAQ (see contribution TR41.9-10-02-18MR1)

Plenary Action Requested: Concurrence to update the FAQ list by adding new item concerning reset of volume control if 18 dB of receiver gain is exceeded.

Plenary Action taken: Unanimous concurrence.

Additional Information: TR-41.9 would like to provide the following additional information.

- Request update on Scope C change request sent to ANSI.
- A written response will be generated by Trone Bishop and Steve Whitesell regarding plating material question that came into TR41.9.

Plenary Action Requested: Request concurrence to send this written response to the originator of the question once the response is ready.

Plenary Action Taken: Unanimous concurrence.

#### 4. Liaison Reports

None.

#### 5. Old business

##### a. Project Status Spreadsheet

Al Baum reviewed the Project Status spreadsheet and updated it with inputs from the other Subcommittee Chairs present (see TR41-10-02-008-MR1).

#### 6. New Business

##### a. Call for Candidates:

The following positions remain open following the November 2009 elections. Individuals interested in filling any of these positions should make their candidacy known and provide a statement of support from their company for serving in the role. An election will then be held at the next regularly scheduled meeting.

- 1) TR-41 Vice-Chair
- 2) TR-41.7 Vice-Chair
- 3) TR-41.9 Chair & Vice Chair



**b. Obligations of Formulating Groups Re Plenary Non-Concurrence**

During the discussion of the TR-41.3 Chair's Report, Jim Bress raised the question as to what the responsibility of a Formulating Group (such as TR-41.3) was to carry out a decision made if the Plenary should not concur with the decision. Why the question is hypothetical at this time (i.e., there are no recent cases where the TR-41 Plenary has not concurred with the decision of a Formulating Group), the meeting participants agreed it is something for which there should be a well defined policy.

Chair Steve Whitesell pointed out that the reason for bringing Subcommittee (Formulating Group) decisions to the Plenary for concurrence was (1) to inform a broader range of participants and their companies about decisions being made to ballot and publish documents and (2) to allow for disagreement from that broader interest group to be voiced if it should exist. He indicated that he could only remember one or two times where someone objected to concurrence. He was not certain he thought the affected Subcommittee had held up on their taking action until the entire Subcommittee could review the objection at a subsequent meeting. He could not remember specific examples. He did agree to research this subject with TIA Staff to get an answer as to what should happen if such a case does come up.

**7. Meeting Schedules**

**a. Next Meeting**

The next meeting will be held the week of May 3-7, 2010 and is expected to be in Nashville, TN. The preliminary meeting schedule for the various TR-41 subcommittees and working groups is given in Appendix A. The tentative details for the meeting hotel are as follows (contract has not been signed):

Embassy Suites Nashville at Vanderbilt  
1811 Broadway  
Nashville, TN 37203  
Phone: 1-615-320-8899  
Fax: 1-615-320-8881  
Room Rate: \$ 129 Single/Double  
Cut off date:

**b. Future Meetings**

The schedule for future TR-41 meetings is given below.

<b>Date</b>	<b>Location</b>
August 9-13, 2010	Virtual
November 8-12, 2010	San Diego, Santa Cruz, Phoenix, Salt Lake City, Las Vegas, Vancouver, Other West or Southwest

**8. Adjournment**

There being no further business, the meeting was adjourned at 10:00 AM. This meeting was conducted in accordance with the TIA Legal Guides and the Engineering Manual.

Phillip Havens  
Secretary, TR-41

Stephen R Whitesell  
Chair, TR-41

Appendix A  
Tentative TR-41 Meeting Schedule for May 3-7, 2010

Room				
MONDAY 0830 – 1230 3 May 2010	TR-41.3.3/41.3.9 Digital Xmission Perf/ Cordless Telephones (Woo/Bress – 15)			
MONDAY 1330 – 1730 3 May 2010	TR-41.3.3 Digital Xmission Perf (Woo – 15)			
MONDAY 1800 – 1930 3 May 2010		TR-41 Leadership User Premises Eqpmt (Whitesell – 10)		
TUESDAY 0830 – 1230 4 May 2010	TR-41.3.3 Digital Xmission Perf (Woo – 15)	TR-41.9.1 Regulatory Criteria (Havens – 15)		
TUESDAY 1330 – 1730 4 May 2010	TR-41.3.5 Handset Telephones (McKinnon – 15)	TR-41.9.1 Regulatory Criteria (Havens – 15)		
TUESDAY 1900 - 2200 4 May 2010				
WEDNESDAY 0830 – 1230 5 May 2010	TR-41.3.2 Stutter Dial Tone (Bress – 15)	TR-41.9 Regulatory (Havens – 15)		
WEDNESDAY 1330 – 1730 5 May 2010	TR-41.3.12 Telephone Ans Devices (Ray – 15)	TR-41.9 Regulatory (Havens – 15)	TR-41.7.1 Int'l Safety Standards (Ivans – 10)	
WEDNESDAY 1900 – 2200 5 May 2010		Recognition Event		
THURSDAY 0830 – 1230 6 May 2010	TR-41.3.9 Cordless Telephones (Bress – 15)	TR-41.7.1 Int'l Safety Standards (Ivans – 10)		
THURSDAY 1330 – 1730 6 May 2010	TR-41.3 Wireline Terminals (Baum – 15)	TR-41.7 Environmental & Safety (Ivans – 10)		
THURSDAY 1900-2200 6 May 2010				
FRIDAY 0800 – 1030 7 May 2010	TR-41 Plenary User Premises Eqpmt (Whitesell – 15)			

**Appendix B  
Document List**

<u>Number</u>	<u>Source</u>	<u>Description</u>
TR41-09-11-003-LR1	Chair	Teleconference Meeting Report
TR41-10-02-001-MR1	Chair	Agenda for Ft Myers Meeting
TR41-10-02-002-MR1	Chair	Document List
TR41-10-02-003	Chair	Las Vegas Meeting Report
TR41-10-02-004-MR1	Chair	Attendance Spreadsheet
TR41-10-02-005-MR1	Baum	TR-41.3 Chair's Report
TR41-10-02-006-MR1	Ivans	TR-41.7 Chair's Report
TR41-10-02-007-MR1	Havens	TR-41.9 Chair's Report
TR41-10-02-008-MR1	Baum	Project Status Spreadsheet