

**Approved by General Counsel**

TR-41 Meeting Report

Date(s): 05/16/2014 - 05/16/2014

Location: Ottawa, CAN

Approved: 06/13/2014

**Telecommunications Industry Association  
Standards and Technology Department**

**Engineering Committee TR-41  
Performance and Accessibility for Communications Products**

**Meeting Report**

**Chair: Stephen R. Whitesell**  
**Vice-Chair: (Vacant)**  
**Secretary: (Vacant)**

**Date: May 16, 2014**  
**Venue: Industry Canada Lab**  
**City: Ottawa (Kanata), ON**

**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. Due to a personal commitment, Steve attended the meeting remotely via GoToMeeting.

**b. Roll Call and Quorum**

Roll call was taken and a quorum was declared with 4 of 5 voting member companies represented. Industry Canada has now attended two consecutive meetings since joining TIA as an Associate Member. They were given voting rights following the establishment of quorum and added to the quorum list for the next meeting.

**1) Quorum Members or Alternates Present**

AST – James Bress  
Plantronics – Allen Woo

UL – Randy Ivans  
Whitesell Consulting – Steve Whitesell

**2) Quorum Members Absent**

Cisco – Tim Lawler

**3) Others Present**

Industry Canada – Jason Nixon  
TIA Staff – Marianna Kramarikova

VXi Corporation – Tom Terrien

**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 Committee Procedures:

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 TIA Standards Development Procedures 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 the TIA Standards Department on a case-by-case basis.

**d. Review and Approve Agenda**

A revised agenda (TR41-14-05-001-R1) was submitted for review. The only changes were the revised wording for the Important Notice of Participation and the addition of the revised IPR Policy statement (typically shown separately in the past) as discussed in Agenda Item 1.g below. It was approved without further changes.

**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 the TIA Legal Guides (ANNEX C of TIA Procedures for American National Standards) and other clauses and annexes of TIA Standards Development Procedures. Participants in the work of the TIA Formulating Groups 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 the 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 a TIA Patent Holder Statement 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 thanked everyone for their indulgence in allowing him to participate remotely via GoToMeeting. He noted that this was the first TR-41 closing plenary that he had not physically attended since Maui in February 2000, but that he felt it was important to leave Ottawa on Wednesday evening so that he could attend his daughter's medical school graduation on Thursday.

**g. TIA Staff Remarks**

Marianna Kramarikova noted she had discussed several items during the Chairs Meeting on Monday evening as summarized in TR41-14-05-010-L. This included some reorganization of the Technology & Standards department to clearly split the department into a Technology section and a Standards section. She will continue to provide the support for TR-41. She also noted that the work on revising the old Engineering manual has now been completed, and that effective May 1, we now have four documents that comprise the Engineering Committee Procedures (PANS, ECOP, IPRP, and IPRPGL). One of the results is revised wording for the Important Notice of Participation and for the IPR Policy as noted on the revised agenda. She encouraged participants to attend upcoming webinars on this subject. Finally, she acknowledged the issues TIA had recently experienced with several of its servers and asked anyone who was still having problems to contact her.

**h. Meeting Documents**

The list of documents for the meeting is contained in TR41-14-05-002-R2 and shown in Annex A.

**2. Previous Meeting Report**

The report of the previous meeting (TR41-14-05-003) was 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 – James Bress**

Subcommittee TR-41.3 met on Thursday, May 15, 2014. Its various Working Groups met on Monday through Wednesday.

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

- ANSI/TIA-PN-470.110-D, Transmission Requirements for Narrowband Analog Telephones with Handsets

Current Status: The ANSI/TIA-PN-470.110-D standard was published on April 9, 2014.

Target Completion Date: Project is completed.

- ANSI/TIA-PN-470.220-C Reaffirmation, Alerter Acoustic Output Performance Requirements for Analog Telephones  
Current Status: ANSI/TIA-470.220-C was reaffirmed on March 10, 2014.  
Target Completion Date: Project is completed.
- ANSI/TIA-PN-470.220-D, Alerter Acoustic Output Performance Requirements for Analog Telephones  
Current Status: Ballot closed on April 26, 2014 with 8 Approve, 2 Approve with Comment, 1 Abstain, and 2 Ballots Not Returned (see TR41.3.5-14-05-010-L). All ballot comments were addressed and successfully resolved in the meeting as documented in TR41.3.5-14-05-011-MR1. All comments were determined to be editorial. The working group recommended the document be submitted for publication once the agreed upon editorial changes are incorporated. Document editor James Bress (AST Technology Labs Inc.) will notify commenters of the disposition of their comments. TR-41.3 voted unanimously to send the document for publication after editorial clean-up.  
Target Completion Date: 06/2014  
TR-41.3 Action Requested: Concurrence to submit document for publication as ANSI/TIA-470.220-D after incorporation of agreed editorial changes.  
Plenary Action Taken: Unanimous Concurrence
- ANSI/TIA-PN-920.000-B, Overview of Transmission Requirements for Digital Telephones  
Current Status: Editor Steve Whitesell (Whitesell Consulting LLC) created the initial draft, and the draft was reviewed during the TR-41.3.3 meeting. The document is ready for ballot after ANSI/TIA-PN-920.110-B is completed.  
Target Completion Date: 11/2014
- ANSI/TIA-PN-920.110-B, Transmission Requirements for Digital Telephones with Handsets  
Current Status: Editor Steve Whitesell (Whitesell Consulting) performed the editorial work based on the inputs from the group during the previous meeting. There are considerations regarding the sound field reference that will be used (diffuse-field and/or free-field), and the fact that the IEEE-STIT group plans to publish an amendment or revision of IEEE-1652 with a new definition of the diffuse-field transform. There was discussion regarding if free field and diffuse field should be allowed (can pass using either field transform) and if receive noise and SDNR should include free-field or diffuse field transformation. TR-41.3 voted to send the TIA-PN-920.110-B document for a committee (TIA) ballot after editorial clean-up. During the TR-41.3 meeting Marianna advised we need to open a TIA project before submitting a TIA ballot. TR-41.3 voted to open TIA project TIA-PN-920.110-B.  
Target Completion Date: 11/2014  
TR-41.3 Action Requested: Concurrence to open TIA project TIA-920.110-B and concurrence to send the TIA-920.110-B document for TIA ballot after incorporation of agreed editorial changes.  
Plenary Action Taken: Unanimous Concurrence
- ANSI/TIA-PN-920.120-B, Transmission Requirements for Digital Telephones with Speakerphones  
Current Status: This project will be addressed when the TIA-920.110-B project is close to being completed.  
Target Completion Date: 02/2015
- ANSI/TIA-PN-920.130-B, Transmission Requirements for Digital Telephones with Headsets  
Current Status: This project will be addressed when the TIA-920.110-B project is close to being completed.  
Target Completion Date: 02/2015

- ANSI/TIA-PN-1063-A, Analog Telephone Port Requirements for Packet-based User Premises Terminal Equipment

Current Status: The initial draft 0.1 of the document was presented as contribution TR41.3.5-14-05-009-L. The changes necessary to include coverage for wideband analog telephones are mainly in Clause 9. Updates to several references were also included, but a thorough review to make sure all references are current still needs to be made. The working group reviewed the draft with comments received during the meeting captured in TR41.3.5-14-05-009-MR1. Contributions of other changes that should be made to the document based on experience with its use are urgently requested. The goal is to have the document ready to be submitted for ballot following the August meeting.

Target Completion Date: December 2014

- ANSI/TIA-PN-1083-B, Handset Magnetic Measurement Procedures and Performance Requirements

Current Status: Project is on hold for new contributions to resolve issues for testing with speech for SDNR and location scanning.

Target Completion Date: December 2014

- ANSI/TIA-PN-912-C, Wideband Gateway Transmission Requirements

Current Status: The initial draft 0.1 of the document was presented as contribution TR41.3.5-14-05-004-L. Changes necessary to include coverage for wideband transmission performance, particularly for analog ONS (FXS), OPS, and FXO ports, were proposed. Included were updates to the descriptions of these ports in Clause 4.7, the addition of wideband frequency response requirements to Clause 7, and modifications to the impedance and return loss requirements in Clause 8 and to the noise, balance and distortion requirements in Clause 9. Updates to several references were also included, but a thorough review to make sure all references are current still needs to be made.

The working group reviewed the draft and supporting contributions -005-L, -006-L, -007-L, and -008-L. Comments received during the meeting were captured in TR41.3.5-14-05-004-MR1. Some additional parameters in Clause 10, such as envelope delay, still need to be addressed. In addition, CableLabs document PKT-SP-HDV-120823 will be consulted for possible additional items for consideration. Contributions of other changes that should be made to the document based on experience with its use are urgently requested. The goal is to have the document ready to be submitted for ballot following the August meeting.

Target Completion Date: December 2014

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

- TR-41.3 voted to open a project to revise ANSI/TIA-4953 (Amplified Telephone Measurement Procedures and Performance Requirements). James Bress (AST Technology Labs) agreed to be the editor. The main issues for revision include: removing the "Maximum Usable Gain" measurement clause, adding requirements for the maximum volume control to have acceptable distortion with any input level, adding requirements for sidetone, and adding requirements for digital interface telephones.

The distortion at maximum volume control and sidetone issues are in response to complaints of interoperability problems for amplified telephones with Analog Terminal Adapters (ATAs).

TR-41.3 voted to open the ANSI/TIA-PN-4953-A project.

Plenary Action Requested: TR41.3 requests the concurrence of TR41 to open project ANSI/TIA-PN-4953-A to revise ANSI/TIA-PN-4953.

Plenary Action Taken: Unanimous Concurrence

- TR41.3 discussed the on-going issues related to lack of outreach of TIA to communications device and equipment buyers that should be interested in including TIA TR-41 standards in RFPs and other product procurement processes. It is expected if this could be accomplished with even just one or two large industry players, the participation in TR-41 standards and TIA membership would grow significantly. James Bress (AST Technology Labs) took an action

item to present this to Herb Congdon and Grant Seiffert at the TR-41 meeting at TIA HQ in August 2014.

- Tony Jasionowski (Panasonic) brought up an issue of information to be presented by TIA at the HLAA-2014 convention in Austin TX. TR-41.3 discussed and agreed to include information regarding the latest revisions projects for TIA-1083-A and TIA-4953 in the information that will be presented at HLAA-2014. James Bress (AST Technology Labs) took an action item to review and revise the PPT slides already prepared by Brian Scarpelli.

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

Subcommittee TR-41.7 met on Tuesday, May 13, 2014 for only a ½ day. TR41.7.1 did not meet separately in Ottawa.

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

- ANSI/TIA-PN-571-C, Electrical, Thermal, and Mechanical Environmental Performance Requirements

Current Status: A revised baseline document was developed at the last meeting and posted as TR41.7-14-02-005-L-MR2 for further discussion at this meeting. The subcommittee reviewed and revised this document as TR41.7-14-02-005-L-MR3 which will now be the baseline document for further revisions. The major discussion and revision items had to do with temperature stabilization and other thermal issues. TR41.7-14-05-005 (TIA-571-C-revision-EMI-Ivans) dealing with adding electromagnetic interference requirements was also discussed. The WG agreed with the idea of adding EMI requirements in principle but decided that the reference to IEC 61000-6-1 was too broad and overlapped some requirements already in TIA-571. R. Ivans agreed to resubmit the proposal with more specific references. Also, it was decided that the reference to FCC requirements for emissions was already covered in an informative annex and should be removed from the proposal. The revised proposal will be reviewed in detail at the August meeting. The subcommittee also noted that since we have broadened the scope of this document, “Basic Functionality” needs to be redefined. R. Ivans agreed to submit a proposal on this as well.

The subcommittee now expects that we will be able to complete the revision work at the August 2014 meeting and will have a newly revised draft completed for re-ballot at that time.

Target Completion Date: Due to the comments received during the discussion on the EMI proposal and the additional work required to address basic functionality we are extending our estimated completion date to 11-2014.

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

- It was indicated that the 2<sup>nd</sup> Edition of IEC 62368-1 (Hazard-based safety standard for ITE, A/V and telecom equipment) was published in February. It is expected that this will be more broadly accepted internationally than the 1<sup>st</sup> edition. UL and CSA are already working on the North American version of this edition.

**c. TR-41.9 – Terminal Attachment Programs – Randy Ivans as Acting Chair**

Subcommittee TR-41.9 met on Wednesday, May 14, 2014. A quorum was established with 3 of 4 quorum members present.

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

- TIA-PN-31-D-2, Rationale and Measurement Guidelines for U.S. Network Protection (TSB-31-D Addendum 2)

Current Status: This addendum was sent out for default ballot after the September virtual meeting and the results of the ballot were 9 approves, 2 abstentions and no negative votes. The document is now ready for publication. However, this cannot be done until the FCC accepts ANSI/TIA-PN-4965. A Petition for Rulemaking has been submitted to the FCC requesting the ANSI/TIA-PN-4965 be adopted by reference into Part 68. The FCC has not completed this action yet. TR-41.9 has submitted the publication authorization paperwork to the TIA to start the internal approvals process with a note not to publish it until the FCC approval has been obtained.

There was discussion during Plenary about adding waiver procedure info to 4965 for phones not resetting when gain exceeds 24 dB. There was also discussion about adding Active Speech Level to the measurement. The conclusion was that we should wait until after 4965 is adopted by FCC.

Target Completion Date: Changed to 11/2014 pending FCC Action.

- ANSI/TIA-PN-968-B-2, Technical Requirements for Connection of Terminal Equipment to the Telephone Network – Addendum 2

Current Status: The document was sent out for ballot with 10 approves, 2 abstentions and no “no” votes or comments. A motion was made and seconded to send the document out for publication with unanimous approval by subcommittee members. As soon as the editor prepares the final version of the document, TR41.9 will submit the publication authorization paperwork to the TIA. A second motion with second was made to also send the final published document to ACTA for approval and acceptance with unanimous approval by the subcommittee.

Target Completion Date: because of the delays associated with the ANSI public review, we now expect completion by November 2014.

Plenary Action Requested: TR-41.9 requests concurrence from the plenary to send the final document to the TIA for publication.

Plenary Action Taken: Unanimous Concurrence

Plenary Action Requested: TR-41.9 requests concurrence from the plenary to send the final document to the ACTA for approval and acceptance after its publication.

Plenary Action Taken: Unanimous Concurrence

- TIA-PN-31-D-3 (proposed), Rationale and Measurement Guidelines for U.S. Network Protection (TSB-31-D Addendum 3)

The subcommittee voted at the last meeting in February 2014 to send this document out for committee ballot. This was done early this week. A motion was made and seconded to send the document out for publication if the results of the ballot do not include any no votes or technical comments. This is with the understanding that publication will need to be delayed until TSB-31-D-2 is published since D-3 references some test equipment that is included in D-2. There was unanimous approval by subcommittee members.

Target Completion Date: November 2014.

Plenary Action Requested: TR-41.9 requests concurrence from the plenary to send the revised draft out for publication if the results of the ballot do not include any no votes or technical comments. This is with the understanding that publication will need to be delayed until TSB-31-D-2 is published.

Plenary Action Taken: Unanimous Concurrence

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

Current Status: There was a general inquiry regarding the requirements relating to gold plating and gold plating equivalency. Steve Whitesell provided a response (see: TR41.9-14-05-005-ResponseToModularConnectorPlatingRequirementsQuestion) which did not require any updating to the Q&A document.

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

- Elections for the chair and vice chair were scheduled but were not held since no supported nominations were submitted.

#### 4. Liaison Reports

None.

**5. Action Items and Project Status**

**a. Review of Action Items from Previous Meeting**

Chair Steve Whitesell reviewed the status of action items from the February meeting as given in TR41-14-05-009-LR2. All items were noted as having been completed except for the following (see TR41-14-05-009-MR3 for updated list):

Carry Over Item 7: TR-41 Chair to revise draft for v1.6 of TR-41 Operational Guidelines and re-submit at next meeting.

**b. Action Items from this Meeting**

The action items coming out of this meeting, including the items noted above from the previous meeting that still require action, are listed in Annex B. This list will also be published as contribution TR41-14-08-009 for the next meeting.

**c. Project Status Review**

Chair Steve Whitesell drew attention to the Project Status Spreadsheet (TR41-14-05-008-LR1). Steve pointed out the modifications he has made to the format of this document. They mainly involve arranging all information about the current status of the document, including a column for Reaffirmation Date, to the left of the Document Title, and placing the Project Number column to its right. He noted that project number suffixes associated with re-ballots, default ballots, etc. would be tracked along with ballot open and close dates in the future. He also pointed out that a column has been added for tracking ANSI Review close dates.

**6. Old Business**

The proposal for adding ballot comment resolution information to the Operating Guidelines remains open. See Item 5.a.

**7. New Business**

None.

**8. Meeting Schedules**

**a. Next Meeting**

The next meeting will be held the week of August 18-22, 2014 at TIA Headquarters in Arlington, VA. The preliminary meeting schedule for the various TR-41 subcommittees and working groups is given in Annex C. The details for the meeting hotel are as follows:

Hilton Garden Inn  
1333 North Courthouse Road  
Arlington, VA 22201  
Phone: 877 782 9444  
Fax: 703 807 4862  
Room Rate: \$159 + 13% tax  
Cut-off date: July 19, 2014

**b. Future Meetings**

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

<b>Date</b>	<b>Location</b>
November 17-21, 2014	Tucson, AZ
February 9-13, 2015	

**9. Adjournment**

There being no further business, the meeting was adjourned at 10:00 am. This meeting was conducted in accordance with TIA standards development procedures.

Stephen R Whitesell  
Chair, TR-41

**Annex A  
Document List**

<u>Number</u>	<u>Source</u>	<u>Description</u>
TR41-14-05-001-R1	Chair	Agenda
TR41-14-05-002-R2	Chair	Document List
TR41-14-05-003	Chair	Dallas Meeting Report
TR41-14-05-004-MR1	Chair	Attendance Spreadsheet
TR41-14-05-005-MR1	Bress	TR-41.3 Chair's Report
TR41-14-05-006-MR1	Ivans	TR-41.7 Chair's Report
TR41-14-05-007-MR1	Ivans	TR-41.9 Chair's Report
TR41-14-05-008-LR1	Chair	Project Status Spreadsheet
TR41-14-05-009-MR3	Chair	Arlington Action Item List
TR41-14-05-010-L	Kramarikova	TIA Staff Report

## Annex B Action Items

### Carry-over Items from Previous Meeting(s)

1. TR-41 Chair to revise draft for v1.6 of TR-41 Operational Guidelines and re-submit at next meeting.

### New Items

1. TR-41.3 to submit ANSI/TIA-PN-470.220-D for publication as ANSI/TIA-470.220-D after making agreed editorial changes.
2. TR-41.3 to open a project (TIA-PN-920.110-B) to allow the draft of ANSI/TIA-PN-920.110-B as revised during the meeting to be sent out for a TIA-only ballot.
3. TR-41.3 to submit revised draft of ANSI/TIA-PN-920.110-B for TIA-only ballot as TIA-PN-920.110-B after editorial cleanup.
4. TR-41.3 to open a project to revise ANSI/TIA-4953.
5. TR-41.3 Chair James Bress to again discuss the need for outreach to one or two large industry players concerning the inclusion of TR-41 standards in RFPs and other product procurement processes with Herb Congdon and Grant Seiffert during the August TR-41 meeting at TIA Headquarters.
6. TR-41.3 Chair James Bress to review and update the PPT slides that will be used at the HLA convention with information on the latest revision projects for ANSI/TIA-1083-A and ANSI/TIA-4953. He will coordinate this with Brian Scarpelli.
7. TR-41.7 Chair Randy Ivans to resubmit proposal on adding EMI requirements to ANSI/TIA-PN-571-C with more specific references
8. TR-41.7 Chair Randy Ivans to submit a broadened definition of "basic functionality" for use in ANSI/TIA-PN-571-C.
9. TR-41.9 to submit ANSI/TIA-PN-968-B-2 for publications as ANSI/TIA-968-B-2 after final editorial cleanup.
10. TR-41.9 to submit ANSI/TIA-868-B-2 to ACTA for 30-day review and adoption once the document is published.
11. TR-41.9 to submit TIA-PN-31-D-3 for publication as TSB-31-D-3 if the current ballot closes with no negative votes or technical comments. This is with the understanding that publication will have to be delayed until TSB-31-D-2 is also published because D-3 references test equipment being added by D-2.

## Annex C

## Tentative TR-41 Meeting Schedule for August 18-22, 2014 at TIA Headquarters in Arlington, VA

Room			
MONDAY 0830 – 1230 18 Aug 2014	TR-41.3.5 Analog Tel Xmission Perf (Whitesell – 10)		
MONDAY 1330 – 1730 18 Aug 2014	TR-41.3.5 Analog Tel Xmission Perf (Whitesell – 10)		
MONDAY 1800 – 1930 18 Aug 2014	TR-41 Chair's Meeting (Whitesell – 10)		
TUESDAY 0830 – 1230 19 Aug 2014	TR-41.3.3 Digital Xmission Perf (Woo – 10)		
TUESDAY 1330 – 1730 19 Aug 2014	TR-41.3.3 Digital Xmission Perf (Woo -10)	TR-41.7 Environmental & Safety (Ivans – 10)	
TUESDAY 1900 - 2200 19 Aug 2014			
WEDNESDAY 0830 – 1230 20 Aug 2014	TR-41.3.3 Digital Xmission Perf (Woo -10)	TR-41.7 Environmental & Safety (Ivans – 10)	
WEDNESDAY 1330 – 1730 20 Aug 2014	TR-41.3.14 Acoustic Accessibility (Bress – 10)	TR-41.9 Regulatory (Vacant – 10)	
WEDNESDAY 1900 – 2200 20 Aug 2014			
THURSDAY 0830 – 1230 21 Aug 2014	TR-41.3 Wireline Terminals (Bress – 10)		
THURSDAY 1330 – 1730 21 Aug 2014	TR-41.3 Wireline Terminals (Bress – 10)		
THURSDAY 1900-2200 21 Aug 2014			
FRIDAY 0800 – 1030 22 Aug 2014	TR-41 Closing Plenary User Premises Equipment (Whitesell – 10)		