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## **Approved by General Counsel**

TR-41 Meeting Report

Date: 11/7/08

Location:CostaMesa,CA

Approved: 12/11/08

**T# 11188**

Telecommunications Industry Association  
Standards and Technology Department

Engineering Committee TR-41  
User Premises Telecommunications Requirements

Meeting Report

Chair: Stephen R. Whitesell  
Vice-Chair: Al Baum  
Secretary: Phillip Havens

Date: November 7, 2008  
Venue: Hilton Orange County  
City: Cost Mesa, CA

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**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 8 of 10 voting member companies represented. Since this was the third consecutive meeting at which Bourns Ltd and Siemens were not represented, both companies was removed from the quorum list prior to the determination of quorum.

**1) Quorum Members or Alternates Present**

AST – James Bress  
Cisco – Kirit Patel  
Embarq – Amar Ray  
Plantronics – Allen Woo

Thomson – Roger Hunt  
UL – Randy Ivans  
Uniden – Al Baum  
VTech – Steve Whitesell

**2) Quorum Members Absent**

Littelfuse – Phillip Havens

Telcordia – Randall McCarver

**3) Others Present**

ACTA – John Bipes  
Cisco – Tim Lawler

TIA Staff – Stephanie Montgomery

**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 with the notation that TR-41.9 Vice-Chair Roger Hunt would be giving the report for that subcommittee.

**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 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.

He pointed out that this policy encouraging disclosure of intellectual property rights applies equally to all normative elements of documents under development, whether included directly in the text or incorporated by reference. No disclosures were made.

**f. Chair's Remarks**

Chair Steve Whitesell noted that TR-42 had made a proposal to the Technical Standards Subcommittee (TSSC) concerning FTP site naming conventions. This had been discussed in the Chair's Meeting on Monday evening and there was general agreement with including the dots and a dash in subcommittee and working group designations. There was disagreement with the part of the proposal that would require working groups to be nested under their parent subcommittees on the FTP site. Steve is to report these results back to the TSSC by early next year. There was also agreement to see if TIA can create a temporary folder that would hold all the documents for all groups (TR-41, its subcommittees and working groups) for ease of downloading prior to each meeting. The temporary folder would be removed following the meeting, with all documents filed in their respective meeting folders.

**g. TIA Staff Remarks**

Stephanie Montgomery briefly reported on the recently held TSSC and Technical Committee (TC) meetings. She noted an emphasis being placed on "green" activities by the TIA Standards community and the continuing efforts to expand into new technology areas. She noted an upcoming TIA Board Meeting and a general belt tightening in the organization.

**2. Previous Meeting Report**

The report of the previous meeting 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 – Al Baum**

Subcommittee TR-41.3 met on Thursday afternoon, November 6, 2008. 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 TIA-1083-A)

**Current Status:**

TR41.3.9-08-11-005-L Digital Interface Receive Drive Level was a three-part submission by Steve Whitesell (VTech). The WG reviewed submission -005b, which was a spreadsheet describing the modeling work performed to analyze various scenarios related to determining a suitable input signal level to use for HAC measurements on phones with digital interfaces. Submission -005a is an explanation of how the spreadsheet in submission -005b was constructed. Submission -005c was a listing of the email discussion Steve had with members of a small group (mainly James Bress) interested in his attempts to find an acceptable receive drive level. It was provided for information so that TR41.3.9 members could see the concerns raised about the applicability of the spreadsheet calculations. The WG agreed to use the recommended 3dB increase in test signal level for digital CPE.

TR41.3.9-08-11-004-LR1 was submitted by Don McKinnon (AST) as a Proposed Draft 01 of SP-3-0219-RV1. The WG reviewed the -004-LR1 submission and agreed to change the digital test signal level in -004-LR1 from -16dBm0 to -13dBm0 based on the -005 submission. The wording in the scope of the submission was also revised to specify G.711 for digital sets and to acknowledge that sine waves may not be an appropriate test signal for some products.

Target Completion Date: 05/2009

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

**Current Status:** During this meeting the WG reviewed three contributions and the draft.

TR41.3.10-08-11-005-L Speakerphone Receive Level by Don McKinnon (AST) presented Speakerphone receive level test data results for 13 Speakerphones per Draft 17, clause 4.3.2.1. Industry research and a revised requirement proposal were also presented. The WG reviewed and discussed the submission and agreed to review the -006-L submission before making a decision on the changes proposed in this submission.

TR41.3.10-08-11-006-L Revisiting Receive Requirements by Steve Whitesell (VTech) reviewed the origin of the current draft requirements, discussed some of the inconsistencies with test procedures used in the past as well as within the current document, and proposed adopting a different approach. After discussing both the -005-L and -006-L submissions, the WG agreed to revise the Receive Level requirements in the draft.

**INPUT LEVELS:** The test signal high input level was changed from -14dBV to -18dBV. The new value represents the highest level possible for using P.50 without the PSTN clipping the test signal. The test signal low input level was changed from -38dBV to -32dBV. The new value represents two standard deviations ( $2 \times 4.5\text{dB} = 9\text{dB}$ ) from the mean Far-End Active Speech Level (ASL) at the CPE recorded in Bellcore SR-2476 Annex B. A note was also added that switched loss (for echo suppression) may squelch lower levels.

**OUTPUT LEVELS:** The output level requirements were changed to Recommended:  $\geq 70$  dB SPL (at all three input levels), Mandatory:  $\geq 65$  dB SPL at Max and Mid input levels,  $\geq 62$  dB SPL at the Min input level.

TR41.3.10-08-11-007-L Requirements on Send AGC was submitted by Amar Ray (Embarq). The WG reviewed the submission and agreed to add the following note below the SLR requirements in Table 3: "Send Automatic Gain Control (AGC) is a subject for further study which may be addressed in the next revision of this standard."

TR41.3.10-08-11-004-R1 TIA-470.120-C Draft 17a was provided by editor Al Baum (Uniden). The WG reviewed the draft and made the following changes: The name of the document was changed from "Speakerphone Acoustic Performance Requirements" to "Transmission Requirements for Analog Speakerphones," the RLR requirement was removed, and the RLRD requirement was changed to Receive Level Directionality (RLD). It was noted that

additional work may be needed to harmonize with the latest drafts of IEEE Std 1329 and IEEE Std 269.

Target Completion Date: 02/2009

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

Current Status:

Contributions from Amar Ray (Embarq) were reviewed and incorporated into the draft document. Much of the work during the meeting this week was focused on addressing the performance of various TAM features. This project needs to be wrapped up soon, which will require a major editing effort to incorporate all of the information that has been entered into the current draft.

Target Completion Date: 08/2009

- PN-3-4705-RV1, Transmission Requirements for Wideband Digital Telephones (to become TIA-920-A)

Current Status:

At the last meeting, the WG advised TR-41.3 that the WG had agreed to divide the document in the same manner as TIA-470 if there were no objections at the next meeting. No objections were received and the WG has proceeded to divide TIA-920-A as previously noted. During this meeting the WG created TIA-920.110-A Draft 01 and changed the name from "Transmission Requirements for Wideband Digital Wireline Telephones" to "Transmission Requirements for Wideband Digital Telephones with Handset". (We may need to add the word "Wireline" back into the title as in the current TIA-920 document.) The .110-A draft document was reviewed and multiple editorial changes were made. The WG discussed the possibility of deleting the use of the Low Leak position and performing all tests in the High Leak position. However, consensus could not be reached on this subject. The WG agreed to add a definition for a "+12dB Reference Volume Control Setting" which is the lowest gain setting which yields an RLR equal to or more than 12 dB louder than the reference. Allen Woo agreed to create the first draft of TIA-920.130-A "Transmission Requirements for Wideband Digital Telephones with Headset". The WG plans to resolve all remaining issues and submit both the Handset and Headset documents for balloting at the end of the next meeting.

Target Completion Date: 08/2009 (TIA-920.110-C and TIA-920.130-C)

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

Current Status:

The draft document was reviewed and edited. The noise immunity requirements previously proposed by Steve Whitesell (VTech) were accepted. Several proposed changes for clarification previously proposed by James Bress (AST) were accepted. Bress agreed to propose document text to address other clauses previously proposed for clarification.

A new feature was added as a recommendation (should) to have automatic SDT devices disable SDT checking if 100 consecutive SDT checks are performed without detection of the SDT signal. This was added in response to an issue raised by Bress that on lines without the voicemail feature, there will be no SDT or VMWI so SDT checking will continue to occur on lines that do not need it. Bress stated this could be a much larger number of lines than the number of lines with voicemail.

A recommendation was also added for CPE to not have a "line in-use" feature indication respond to SDT checks.

Target Completion Date: 05/2009

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

- TIA-470.000-D Draft Letter Ballot.  
Plenary Action Requested: Request concurrence to send TIA-470.000-D Draft to Letter Ballot.  
Plenary Action Taken: Unanimous approval
- TIA-470.210-D Draft Industry Ballot.  
Plenary Action Requested: Request concurrence to send TIA-470.210-D Draft to Industry Ballot.  
Plenary Action Taken: Unanimous approval
- TIA-470.310-D Draft Industry Ballot.  
Plenary Action Requested: Request concurrence to send TIA-470.310-D Draft to Industry Ballot.  
Plenary Action Taken: Unanimous approval

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

Subcommittee TR-41.7 met on Thursday afternoon, November 6, 2008. Its 41.7.5 Working Group met on Wednesday and its 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-xxxx, Ethernet First Mile Overvoltage Tests  
Current Status: There have been no contributions concerning this item. There were originally concerns expressed regarding “RJ-45” connected Ethernet being exposed to the outside environment. So far this has not been implemented in the network though there are indications that with the 300 meter capability the potential is there and being considered. TR-41.7 will continue to ask for contributions. If there is no activity over the next few meetings we will consider closing this project. (NOTE: I do not know why there does not appear to be a project open for this as it was entered into the system just prior to the last plenary. I'll need to look into this!)  
Target Completion Date: 03/2010
- PN-3-xxxx, Telecom Circuit Overcurrent Protectors Application Guide  
Current Status: (NOTE: I do not know why there does not appear to be a project open for this as it was entered into the system just prior to the last plenary. I'll need to look into this!)  
The TR41.7.5 WG has completed the preliminary draft of the Application Guide. There are editorial revisions required and some formatting to be done. The guide also anticipates that the UL Outline of Investigation will incorporate the requested changes. See the additional item below. Right now it looks like the work will be completed long before the 2/2010 target.  
TR41.7.5 is planning to meet all day in Savannah and expects to complete work on the document at that time.  
Target Completion Date: 02/2010

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

Last May TR41.7.5 and TR41.7 provided UL with some needed updates to the original draft. These were identified as required based on manufacturer's in-house testing in preparation for submitting the devices for certification. TR41.7.5 has since reformatted these changes into the document (identified as line-outs and underlined text) and plans to send this to UL with a request to update their Outline of Investigation. A few editorial additions to the original letter

request were added and separately highlighted. A cover letter has been prepared to transmit the material to UL.

Plenary Action Requested: TR41.7 requests concurrence to send the letter and related material to UL for the updating of their Outline of Investigation.

Plenary Action Taken: Unanimous approval.

- During the ballot to reaffirm TIA-631-A (RF Interference for telephones) a negative response was received citing outdated references. In seeking resolution of the comments, it was determined that more work was needed on the document to make it technically correct. The scope includes devices with acoustic outputs but the standard really only covers handsets and not speakerphones or headsets. The standard references digital devices but there are no methods described to test these.

We have since received a contribution providing an overview of how to test speakerphones, answering machines and headsets. However, after discussing this, it was determined that it would take a lot of work and time to incorporate the material as requirements in the standard. (Requirements, drawings, etc. all need to be added in great detail.) Since earlier it was determined that the subcommittee did not want to expend a tremendous amount of time on this standard, TR41.7 has agreed to the following course of action: Revise the scope to only include analog devices with handsets, update and validate all of the references, and add the material from the contribution as an informative annex with reference in the scope.

TR41.7 will consider future contributions for more extensive revisions to the standard as a separate work project.

Plenary Action Requested: TR41.7 requests approval to open a project to revise TIA-631-A to become TIA-631-B.

Plenary Action Taken: Unanimous approval.

#### c. TR-41.9 – Terminal Attachment Programs – Roger Hunt

Subcommittee TR-41.9 met on November, November 4, 2008. Its TR-41.9.1 Working Group met on Monday.

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)

Current Status: Preparing document for ballot

Target Completion Date: 02/2009

Plenary Action Requested: TR41.9 requests concurrence from the plenary to submit the document for TIA and ANSI ballot pending final editorial cleanup. Target date for submission is mid-January 2009.

Plenary Action Taken: Unanimous approval.

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

Current Status: In progress. Two contributions received. Work will be transferred to TR41.9.1 WG for action during February 2009 meeting session

Target Completion Date: 05/2009

- PN-3-3602-AD1, Rationale and Measurement Guidelines for TIA-968, Addendum 1 (to become TSB-31-C-1)

Current Status: Submitted to TIA for publication on 11/3/2008

Target Completion Date: 11/2009

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

Current Status: Additional question/response regarding required limit on number of DTMF digits allowed on a single button push for end-to-end signaling will be posted on the FAQ list.

Target Completion Date: 2/2009

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

- TR41.9 intends to send a letter of invitation to a guest speaker (Mr. Steven Bipes – ANSI) to discuss international and foreign regulatory standards.

Plenary Action Requested: TR41.9 requests concurrence from the Plenary to send the letter of invitation.

Plenary Action Taken: Unanimous approval.

- TR41.9 announces the departure of Roger Hunt as Chair of TR41.9.1 and Vice-Chair of TR41.9, effective November 14, 2008

#### 4. Liaison Reports

None.

#### 5. Old business

Al Baum led a thorough review of the Project Status Spreadsheet. The status of most projects was brought up to date. Some projects, particularly those previously owned by TR-41.4, need to have additional action such as voting to reconfirm certain standards. Chair Steve Whitesell will be responsible for following up on this.

#### 6. New Business

None.

#### 7. Meeting Schedules

##### a. Next Meeting

The next meeting will be held the week of February 9-13, 2009 in Savannah, GA. The preliminary meeting schedule for the various TR-41 subcommittees and working groups is given in Appendix A. The details for the meeting hotel are as follows:

DoubleTree Hotel Historic Savannah  
411 West Bay Street  
Savannah, GA 31401  
Phone: 912 790 7000  
Fax: 912 721 5001  
Room Rate: \$142  
Cut off date: January 19, 2009

##### b. Future Meetings

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

<b>Date</b>	<b>Location</b>
May 4-8, 2009	Indianapolis ??
August 10-14, 2009	Vancouver, Ottawa, Montreal, St Louis, Columbus
November 2-6, 2009	TIA Headquarters, Las Vegas, 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.

Stephen R Whitesell  
Chair, TR-41

**Appendix A  
Tentative TR-41 Meeting Schedule for Date**

Room				
MONDAY 0830 – 1230 9 Feb 2009	TR-41.3.3 Digital Xmission Perf (Baum – 20)	TR-41.9.1 Regulatory Criteria (Vacant – 20)		
MONDAY 1330 – 1730 9 Feb 2009	TR-41.3.3 Digital Xmission Perf (Baum – 20)	TR-41.9.1 Regulatory Criteria (Vacant – 20)		
MONDAY 1800 – 1930 9 Feb 2009		TR-41 Leadership User Premises Eqpmt (Whitesell – 10)		
TUESDAY 0830 – 1230 10 Feb 2009	TR-41.3.10 Hands Free Telephones (Baum – 20)	TR-41.9 Regulatory (Havens – 20)		
TUESDAY 1330 – 1730 10 Feb 2009	TR-41.3.10 Hands Free Telephones (Baum – 20)	TR-41.9 Regulatory (Havens – 20)		
TUESDAY 1900 - 2200 10 Feb 2009				
WEDNESDAY 0830 – 1230 11 Feb 2009	TR-41.3.2 Stutter Dial Tone (Bress – 15)	TR-41.7.5 Overcurrent Protection (Vacant – 15)		
WEDNESDAY 1330 – 1730 11 Feb 2009	TR-41.3.12 Telephone Ans Devices (Ray – 15)	TR-41.7.5 Overcurrent Protection (Vacant – 15)		
WEDNESDAY 1900 – 2200 11 Feb 2009				
THURSDAY 0830 – 1230 12 Feb 2009	TR-41.3.9 Cordless Telephones (Bress – 20)	TR-41.7.1 Int'l Safety Standards (Ivans – 15)		
THURSDAY 1330 – 1730 12 Feb 2009	TR-41.3 Wireline Terminals (Baum – 20)	TR-41.7 Environmental & Safety (Ivans – 15)		
THURSDAY 1900-2200 12 Feb 2009				
FRIDAY 0800 – 1030 13 Feb 2009	TR-41 Plenary User Premises Eqpmt (Whitesell – 15)			

**Appendix B  
Document List**

<u>Number</u>	<u>Source</u>	<u>Description</u>
TR41-08-11-001	Chair	Agenda for Cost Mesa Meeting
TR41-08-11-002	Chair	Document List
TR41-08-11-003	Secretary	Halifax Meeting Report
TR41-08-11-004-MR1	Chair	Attendance Spreadsheet
TR41-08-11-005-MR1	Baum	TR-41.3 Chair's Report
TR41-08-11-006-MR1	Ivans	TR-41.7 Chair's Report
TR41-08-11-007-MR1	Havens	TR-41.9 Chair's Report
TR41-08-11-008-M	Baum	TR-41 Project Status Spreadsheet