

**Approved by General Counsel**

TR-41 Meeting Report

Date(s): 02/15/2013 - 02/15/2013

Location: Orlando, FL

Approved: 02/19/2013

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: (Vacant)

Date: February 15, 2013  
Venue: Embassy Suites Downtown  
City: Orlando, FL

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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 5 of 7 voting member companies represented.

1) Quorum Members or Alternates Present

Cisco – Tim Lawler  
Plantronics – Allen Woo  
UL – Randy Ivans

Uniden – Al Baum  
Whitesell Consulting – Steve Whitesell

2) Quorum Members Absent

AST – James Bress

Littelfuse – Will Li

3) Others Present

Industry Canada – Jason Nixon

TIA Staff – Marianna Kramarikova

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

An MR1 version of the agenda with "Renaming TR-41" added as New Business Item 7.a and the identification of contribution -012-L as applicable to Liaison Report Item 4.a. The modified agenda 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 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**

There were no remarks by the Chair. When asked about feedback on the meeting venue, the responses indicated the location of the hotel within easy walking distance of several restaurants was a strong positive.

**g. TIA Staff Remarks**

There were no TIA Staff remarks. Steve noted that he had posted a contribution presented by Marianna at the Chair's Meeting on Monday evening as contribution TR41-13-02-010-L.

**h. Meeting Documents**

The list of documents for the meeting is provided in Annex A.

**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 – James Bress**

Subcommittee TR-41.3 met on Thursday, February 14, 2013. Its TR-41.3.3, TR-41.3.5, and TR-41.3.14 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, Handset Acoustic Performance Requirements for Analog Telephones

Current Status: This document was approved for ballot subject to editorial cleanup at the November 2011 meeting, but is awaiting submittal of the draft from the editor (James Bress). Contribution TR41.3.5-12-11-00-008-L from the November 2012 meeting discussed naming conventions for the TR-41.3 transmission performance standards. TR41.3 voted to change the name of this document to "Transmission Requirements for Narrowband Analog Telephones with Handsets."

Target Completion Date: June 2013

- ANSI/TIA-PN-470.112, Transmission Requirements for Wideband Analog Telephones with Handsets

Significant work has been completed on the draft document. The nominal SLR and RLR values specified in the latest draft are the same as for narrowband analog telephones, but the measurement procedure calls for testing with a 600 ohm source/load and zero loop instead of a 900 ohm source/load and a 2.7 km (9 kft) loop. This was done to better represent the terminal adapters / gateways to which wideband telephones are expected to be connected. During discussion about adding level requirements as an alternative to loudness ratings in the speakerphone document (see next section) the question was raised about whether a similar approach should be taken with the handset document. This has been discussed in the past as being desirable, but may slow down the completion of the handset document. No firm decision was reached on this issue. TR41.3 voted to send ANSI/TIA-PN-470.112 for industry ballot after editorial cleanup.

Target Completion Date: June 2013

TR-41.3 Action Requested: Concurrence to send ANSI/TIA-PN-470.112 for industry ballot after editorial cleanup.

TR-41.3 Action Taken: Unanimous Concurrence

- ANSI/TIA-PN-470.122, Transmission Requirements for Wideband Analog Telephones with Speakerphones

Current Status: Significant work has been completed on the draft document. Additional work, including the addition of level requirements as an alternative to loudness ratings, is needed before this document will be ready for ballot. It is expected that this document will be ready for ballot by the next meeting.

Target Completion Date: June 2013

- ANSI/TIA-PN-470.132, Transmission Requirements for Wideband Analog Telephones with Headsets

Current Status: No work has been done on this document as yet. This document will follow from the handset document with the necessary changes being made for headset specific issues after the handset document is completed.

Target Completion Date: August 2013

- ANSI/TIA-PN-470.340, Feature Performance Requirements for Wideband Analog Telephones Used with VoIP Services

Current Status: Microsemi Corporation has submitted a contribution proposing to delete the wideband telephone handshake protocol. Under this scenario, the telephone would always operate with wideband capability but would provide narrowband performance when connected to a narrowband transmission source. This did raise a question as to whether more of a "brick wall" at around 8 kHz should be required of the receive template to reduce any 8 kHz sampling artifacts that might be present when receiving a narrowband signal.

TR41.3 voted to cancel this project.

Plenary Action Requested: Concurrence requested to cancel ANSI/TIA-PN-470.340 project.

Plenary Action Taken: Unanimous Concurrence

- TIA-PN-920.120-A-R2, Transmission Requirements for Wideband Digital Wireline Speakerphones (to become TIA-920.120-A)

Current Status: Project complete.

Target Completion Date: Published November 2012

- ANSI/TIA-PN-810-C, Transmission Requirements for Narrowband Digital Telephones

Current Status: Project cancelled in favor of creating a multi-part document with separate subdocuments for handset, speakerphone, and headset performance.

- ANSI/TIA-PN-810.000-C, Overview of Transmission Requirements for Narrowband Digital Telephones

Current Status: TR41.3 voted to not open this project and instead open a project to revise TIA-920.000-A to reflect the new projects to be open for adding narrowband performance to other TIA-920.xxx-A revisions (see below).

Plenary Action Requested: Concurrence to not proceed with TIA-810.000-C (project was not opened).

Plenary Action Taken: Unanimous Concurrence

- ANSI/TIA-PN-810.110-C, Transmission Requirements for Narrowband Digital Telephones with Handsets

Current Status: The editor, Steve Whitesell started with text from the TIA-920.110-A published document and edited it to be used for the narrowband TIA-810.110-C document. TR41.3 voted instead to not open the TIA-810.110-C project and instead open TIA-920.110-B to revise TIA-920.110-A to add narrowband requirements, add send and receive level requirements, and add requirements for handset telephones to pass TIA-1083-A.

Plenary Action Requested: Concurrence to not proceed with TIA-810.110-C (project was not opened).

Plenary Action Taken: Unanimous Concurrence

- ANSI/TIA-PN-810.120-C, Transmission Requirements for Narrowband Digital Telephones with Speakerphones

Current Status: TR41.3 voted to not open the TIA-810.120-C project and instead open TIA-920.120-B to revise TIA-920.120-A to add narrowband requirements.

Plenary Action Requested: Concurrence to not proceed with TIA-810.120-C (project was not opened).

Plenary Action Taken: Unanimous Concurrence

- ANSI/TIA-PN-810.130-C, Transmission Requirements for Narrowband Digital Telephones with Headsets

Current Status: TR41.3 voted to not open the TIA-810.130-C project and instead open TIA-920.130-B to revise TIA-920.130-A to add narrowband requirements, and to add send and receive level requirements.

Plenary Action Requested: Concurrence to not proceed with TIA-810.130-C (project was not opened).

Plenary Action Taken: Unanimous Concurrence

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

Current Status: Waiting for contributions.

Target Completion Date: 02/2014

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

- New Project

TR41.3 voted to open an ANSI project to revise ANSI/TIA-470.210-D to become ANSI/TIA-470.210-E to include impedance requirements for wideband telephones.

Plenary Action Requested: Concurrence requested to open the ANSI/TIA-470.210-E project to revise ANSI/TIA-470.210-D.

Plenary Action Taken: unanimous concurrence

- New Projects

TR-41.3 voted to open a series of new ANSI projects to revise the TIA-920.XXX-A standards to become ANSI/TIA-920.XXX-B standards that will include both narrowband and wideband performance as well as adding level requirements in addition to loudness ratings. The following new projects are to be opened:

ANSI/TIA-PN-920.000-B, Overview of Transmission Requirements for Digital Telephones

ANSI/TIA-PN-920.110-B, Transmission Requirements for Digital Telephones with Handsets

ANSI/TIA-PN-920.120-B, Transmission Requirements for Digital Telephones with Speakerphones

ANSI/TIA-PN-920.130-B, Transmission Requirements for Digital Telephones with Headsets

Plenary Action Requested: Concurrence to open four new ANSI projects as identified above.

Plenary Action Taken: Unanimous Concurrence

- Liaison with ETSI STQ

A liaison between ETSI STQ and TR41 has been established by TR-41 Chair Steve Whitesell regarding TR41.3's new projects for wideband analog telephones. The TR-41.3.5 Chair (Steve Whitesell) will draft and send another liaison letter (under the letterhead of the TR41

chair) to ETSI STQ informing of the progress made to date and the decision to drop the handshake protocol.

Plenary Action Requested: Approval to send liaison letter to ETSI STQ.

Plenary Action Taken: Unanimous concurrence

- Wideband Magnetic Coupling

Linda Kozma-Spytek of the Technology Access Program at Gallaudet University and Steve Whitesell (Chair TR41 and TR41.3.5) have discussed the TR41.3 wideband analog telephone projects. Linda has asked if the new wideband handset telephone standard will include requirements for wideband magnetic coupling. She indicated that a research study she conducted during last summer's HLAA convention with cochlear implant users showed wideband speech delivered acoustically to the cochlear implant microphone improved the subjects' understanding over that of typical narrowband speech and reduced the mental effort required. Linda has indicated she intends to make a more complete contribution regarding her study to TR-41.3 at a future date to possibly motivate TR41.3 to initiate a project to revise ANSI/TIA-1083-A to include wideband requirements.

- Grant Seiffert (TIA president) visited during the TR41.3.3 meeting on Tuesday. There was a discussion regarding possibly adding mobile devices into the scope of TR41 given the overlap in wireline and wireless devices performance requirements and testing methods. A main topic of discussion was the erosion of TR41 participation in spite of the booming industry for telecommunications user premises equipment. The group described the ad-hoc TR41 project that has been started to execute a plan for outreach to people working in positions in the ICT equipment procurement industry. The group specifically requested that Mr. Seiffert provide Marianna Kramarikova with the resources and support needed from TIA upper management to make this project successful to bring in new members to TIA and increase participation in TR41. The group made Mr. Seiffert aware of Marianna's unique understanding of TR41's projects and standards and the fact that TR41 felt Marianna had the necessary skills and capabilities to make this project successful. Mr. Seiffert stated he fully backs this effort and will work with Marianna to provide the resources needed to make this successful.
- During the meeting with Mr. Seiffert, Mr. Seiffert suggested that possibly changing the name of TR41 from its current "User Premises Telecom Requirements" to something that may better reflect the businesses of the companies that would be potential new TIA and TR41 members. TR-41.3 discussed the idea for TR-41 to initiate a "change the name of TR-41" initiative by sending an email to all on the email reflectors for TR41 (and subcommittees) informing of this effort. If this proposal is accepted by TR41, Jim Bress has agreed to accept the email responses and present them to TR41 for a vote among the TR41 quorum members (suggest giving a deadline of about two weeks from when the email goes out). Suggest if a unanimous decision is not reached by the TR41 quorum members that each unique name desired by the quorum members be sent out for an email vote to all on the email reflectors for TR41 (and subcommittees).

Plenary Action Requested: Approval and action by TR41 requested

Plenary Action Taken: Item has been added to TR-41 Agenda under New Business.

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

Subcommittee TR-41.7 met on Tuesday, February 12, 2013. There was no quorum present.

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, Mechanical Environmental Performance Requirements

Current Status: There were no new contributions received for this project. A draft of TIA-571-B (TR41.7-13-02-005-L-DRAFT\_TIA-571-C\_Baseline) was established as the baseline document for this work. A revised draft (TR41.7-13-02-005-MR1-DRAFT\_TIA-571-C\_Rev1) was completed that incorporates changes to the title and scope and revisions to the surge section of the document. These were submitted previously as contributions and discussed by

the subcommittee at previous meetings. Editorial changes were also incorporated. TR41.7 is still seeking contributions for additional updates and revisions to this standard.

Target Completion Date: November 2013

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

- With respect to getting TIA-1194 referenced by the Smart Grid Interoperability Panel catalog of standards, it was determined the TIA is a participating member of SGIP. Cheryl Blum (VP) is a Voting Representative for TIA. Information relating to submitting TIA-1194 for consideration was received but no action has been taken at this time. The chair will review this information and prepare a submission package for Ms. Blum to forward to the SGIP.
- There is concern about the lack of interest in the TR41.7 committee by the industry. There are significant changes underway in the international and national safety arena that should be of interest to the industry. Also, the TIA-571 revision project is underway and there has been interest expressed by some companies but no new contributions. The chair had some discussions with TIA staff relating to further announcements relating to these activities.
- At the last meeting there was some discussion relating to TIA support for participation in the UL60950/UL62368 technical harmonization committee (THC). There is new doubt that a suitable representative could be found at this time or if the TIA would support such an activity with waning industry interest.

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

Subcommittee TR-41.9 met on Wednesday, February 13, 2013. There was not a quorum with only 3 of 7 quorum members in attendance.

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: Work on this document was essentially completed at the last meeting. This week we went through the final draft and completed the necessary editorial corrections. The editor is currently putting the document into its final format for publication.

Target Completion Date: June 2013

Plenary Action Requested: TR41.9 asks the plenary for approval to send out the finished TSB-31-D-2 document for a committee ballot.

Plenary Action Taken: Motion made by Randy Ivans and seconded by Tim Lawler. Unanimous agreement.

- ANSI/TIA-PN-1096-A (or B?), Connector Requirements for Connection of Terminal Equipment to the Telephone Network

Current Status: There was some confusion related to the existence of open ANSI projects for –A and –B, as well as an open project for –B. At the last meeting the subcommittee agreed to open a project but the plenary recommended waiting to see if expected contributions would warrant a standards revision. A project (-B) was accidentally opened. Also it appears that the original ANSI project for the –A version was never completed which means that the standard is not an ANSI standard and that the project is still open on ANSI's books. The stakeholders (ACTA, etc.) were notified about the lack of ANSI status and they were not concerned.

After a review of a recent contribution relating to TIA-1096-A, it was agreed that no changes were warranted to the standard at this time but that we would wait until the next meeting before closing the current TIA –B project. This is to give the contributor a chance to review and respond to our comment letter (see discussion below).

After reviewing the contribution, the subcommittee agreed that the concerns and rationale were related to 8 pin modular connectors used for high speed data connectors (Ethernet) and not to RJ45 telecommunication connectors where the data rates are considerably lower. These high speed data rate connectors are not under the scope of TIA-1096-A and in fact the Ethernet standards reference IEC 60603-7 for their construction details. In addition there were concerns that the tighter tolerances requested could impact the “fit” between the plugs

and jacks used in telecommunications applications due to the wide variety of installation and environmental conditions common in telecommunications applications. A letter has been drafted to the submitters of the contribution.

Finally, the subcommittee agreed that since the interested stakeholders have not expressed a need for ANSI approval of the standard, we will not seek ANSI recognition of the standard whether or not any changes are needed.

Target Completion Date: June 2013

Plenary Action Requested: TR41.9 seeks plenary approval to send a letter (TR41.9-13-02-009-M) to Sentinel as a response to their contribution.

Plenary Action Taken: Motion made by Randy Ivans and seconded by Tim Lawler. Unanimous agreement.

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

Current Status: This is a project opened for ongoing inquiries related to Part 68 and TIA-968 questions. There were no inquiries or questions discussed at this meeting of TR41.9.

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

- Over the course of the last few meetings TR41.9 has lost their liaisons (Trone Bishop and John Bipes) to the ACTA. Steve Whitesell has agreed to attend ACTA via teleconference when he can and will provide the subcommittee with updates whenever possible.
- The subcommittee and plenary had already approved TIA-168-B for publication. There was a delay in filing the necessary paperwork for publication but this is expected to be completed shortly.
- Representatives from Industry Canada provided the subcommittee with their usual update of related IC activities and provided valuable input on a variety of other topics we discussed. The subcommittee thanks them for their continued interest and support. Their participation is very much appreciated.

#### 4. Liaison Reports

##### a. ETSI STQ – Whitesell

Contribution TR41-13-02-011 is a letter dated November 14, 2012 from TR-41 Chair Steve Whitesell to ETSI STQ Chair Andreas Kamcke announcing the new wideband analog telephone projects as requested by TR-41.3 at the November meeting in Las Vegas. Contribution TR41-13-02-012-L is a reply letter from Mr. Kamcke acknowledging receipt of our liaison letter and indicating they wished to be kept informed about the project. As noted under the TR-41.3 Subcommittee Report, a new liaison letter will be drafted to inform ETSI STQ of our decision to drop the handshake negotiation protocol.

#### 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 November meeting as given in TR41-13-02-009-LR2. Most items were noted as having been completed, but the following items still require action (see TR41-13-02-009-MR3 for updated list):

Carry-over Item 1: TR-41.3 to send ANSI/TIA-PN-470.110-D out for industry ballot after editorial cleanup, as approved during November 2011 meeting.

Carry-over Item 3: TR-41.3 Chair to inquire with TR-45 Chair about collaborative work to include mobile handsets in future revision of TIA-4953 amplified telephone standard.

Carry-over Item 4: Tony Jasionowski to draft a letter that will be sent from the TR-41 Chair to TIA leadership asking for more outreach to the accessibility products and advocacy industry to increase awareness of TIA-1083 and TIA-4953 and their associated logos. The draft letter will be submitted as a contribution to TR-41.3 for review prior to forwarding to TR-41.

Carry-over Item 5: TR-41 Chair to incorporate the editorial ballot comment resolution proposal from Contribution TR41-12-08-015-L into a draft revision of the TR-41 Operational Guidelines for consideration at the February 2013 meeting.



Item 2: TR-41.3 to submit TSB-177-A for publication.

Item 7: TR-41.7 will work with TIA Staff to request ANSI/TIA-1194 be accepted by the NIST Smart Grid Interoperability Panel (SGIP) for inclusion into their Catalog of Standards. This item is in process.

Item 8: TR-41.9 will send response to inquiry received about applicability of TIA-968 to optical network termination (ONT) devices.

**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 TR41-13-05-009 for the next meeting.

**c. Project Status Review**

Chair Steve Whitesell drew attention to the Project Status Spreadsheet (TR41-13-02-008-L). He noted that the ANSI/TIA-470.xxx wideband analog projects had been added on the TR-41.3 page. The ANSI/TIA-810.xxxC projects had also been added but without project opening dates. These will need to be removed. Marianna Kramarikova provided the date the TSB-31.B-2 addendum project was opened and this item was added to the TR-41.9 page. The update reported was identified as TR41-13-020008-MR1.

**6. Old Business**

A contribution from Chair Steve Whitesell for the text to add a TR-41.3 proposal for ballot comment resolution (see TR-41-12-08-015-L) to the TR-41 Operational Guidelines is still needed. There was no other old business.

**7. New Business**

As discussed during the TR-41.3 Subcommittee Report, a conversation with TIA President Grant Seiffert suggested there could be substantial benefit in changing the name of TR-41 from User Premises Telecommunications Requirements to something that would better capture the work we are trying to do today and that would better resonate with people and organizations that we would like to join our efforts. The process suggested by TR-41.3 was to send out an email to all TR-41 reflectors asking for suggestions for a new name. The candidates received would then be sent out for a vote by the TR-41 quorum members. If that result was unanimous, the choice would become the new TR-41 name. If it was not unanimous, then the list of candidates would be circulated to all TR-41 participants for a vote.

Discussion during the TR-41 meeting indicated a need for also developing a refined scope for TR-41, with some participants feeling it was important to develop the scope first and then to let the new name evolve from the scope. After further discussion, the group decided that an email request should be made to all of the TR-41 reflectors for people to suggest both a brief scope statement and a new name for TR-41. Chair Steve Whitesell will send out the email with a request that the candidate name and scope proposals be sent to Jim Bress for compilation and submission to the TR-41 quorum members for vote as originally proposed.

**8. Meeting Schedules**

**a. Next Meeting**

The next meeting will be held the week of April 29 through May 3 and be hosted by Plantronics at their Santa Cruz, CA offices. The preliminary meeting schedule for the various TR-41 subcommittees and working groups is given in Annex C. The details for the meeting location are as follows:

Plantronics  
345 Encinal Street  
Santa Cruz, CA 95060

Meeting participants may receive the Plantronics Corporate rate at either of two hotels as shown below:

Dream Inn  
175 W Cliff Drive  
Santa Cruz, CA 95060  
Room Rate: \$159

Hilton  
6001 La Madrona Drive  
Santa Cruz, CA 95060  
Room Rate \$124

To obtain the Plantronics room rate, participants need to book their rooms through the Plantronics Travel Department by sending an email to [travel.department@plantronics.com](mailto:travel.department@plantronics.com) or by calling 831 458 4448. Please indicate your reservation is for the TIA TR-41/IEEE STIT meeting.

**b. Future Meetings**

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

<b>Date</b>	<b>Location</b>
August 5-9, 2013	Virtual
November 4-8, 2013	Dallas – Ft Worth Area

**9. Adjournment**

There being no further business, the meeting was adjourned at 10:15 am. This meeting was conducted in accordance with the TIA Legal Guides and the Engineering Manual.

Stephen R Whitesell  
Chair, TR-41

**Annex A  
Document List**

<u>Number</u>	<u>Source</u>	<u>Description</u>
TR41-13-02-001-MR1	Chair	Agenda
TR41-13-02-002-R2	Chair	Document List
TR41-13-02-003	Chair	Las Vegas Meeting Report
TR41-13-02-004-MR1	Chair	Attendance Spreadsheet
TR41-13-02-005-MR1	Bress	TR-41.3 Chair's Report
TR41-13-02-006-MR1	Ivans	TR-41.7 Chair's Report
TR41-13-02-007-MR1	AdHoc Chair	TR-41.9 Chair's Report
TR41-13-02-008-MR1	Chair	Project Status Spreadsheet
TR41-13-02-009-MR3	Chair	Las Vegas Action Item List
TR41-13-02-010-LR1	Kramarikova	TIA Staff Report to Leadership
TR41-13-02-011	Chair	Liaison Letter to ETSI STQ on Wideband Analog Telephone Std
TR41-13-02-012-L	ETSI STQ	Liaison Reply on Wideband Analog Telephone Standard

## Annex B Action Items

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

1. TR-41.3 to send ANSI/TIA-PN-470.110-D out for industry ballot after editorial cleanup, as approved during November 2011 meeting.
2. TR-41.3 Chair to inquire with TR-45 Chair about collaborative work to include mobile handsets in future revision of TIA-4953 amplified telephone standard.
3. Tony Jasionowski to draft a letter that will be sent from the TR-41 Chair to TIA leadership asking for more outreach to the accessibility products and advocacy industry to increase awareness of TIA-1083 and TIA-4953 and their associated logos. The draft letter will be submitted as a contribution to TR-41.3 for review prior to forwarding to TR-41.
4. TR-41 Chair to incorporate the editorial ballot comment resolution proposal from Contribution TR41-12-08-015-L into a draft revision of the TR-41 Operational Guidelines for consideration at the November 2012 meeting.
5. TR-41.3 to submit TSB-177-A for publication.
6. TR-41.7 will work with TIA Staff to request ANSI/TIA-1194 be accepted by the NIST Smart Grid Interoperability Panel (SGIP) for inclusion into their Catalog of Standards. This item is in process.
7. TR-41.9 will send response to inquiry received about applicability of TIA-968 to optical network termination (ONT) devices.

### New Items

1. TR-41.3 to send ANSI/TIA-PN-470.112 out for industry ballot after editorial cleanup.
2. TR-41.3 to cancel ANSI/TIA-PN-470.340 project.
3. TR-41.3 to open new ANSI project to revise ANSI/TIA-470.210-D to become ANSI/TIA-470.210-E to include impedance requirements for wideband telephones.
4. TR-41.3 to open a series of new ANSI projects to revise the TIA-920.XXX-A standards to become ANSI/TIA-920.XXX-B standards that will include both narrowband and wideband performance as well as adding level requirements in addition to loudness ratings. The following new projects are to be opened:
  - ANSI/TIA-PN-920.000-B, Overview of Transmission Requirements for Digital Telephones
  - ANSI/TIA-PN-920.110-B, Transmission Requirements for Digital Telephones with Handsets
  - ANSI/TIA-PN-920.120-B, Transmission Requirements for Digital Telephones with Speakerphones
  - ANSI/TIA-PN-920.130-B, Transmission Requirements for Digital Telephones with Headsets
5. TR-41 Chair to send liaison letter to ETSI STQ informing them of progress made to date on the wideband analog telephone project and the decision to drop the bandwidth negotiation handshake protocol.
6. TR-41.9 to send TIA-PN-32-D-2 (to become TSB-32-D-2) out for committee ballot after completion of editorial cleanup.
7. TR-41.9 to send a letter as shown in TR41.9-13-02-009-M to Sentinel Connectors in response to their contribution TR41.9-13-02-007-L on suggested changes to TIA-1096-A.
8. Chair Steve Whitesell to send out a request to all email reflectors for TR-41 participants to suggest a new name and corresponding short statement of scope for TR-41 that better reflects the work we are doing today and better resonates with the people and organizations we would like to attract to the TR-41 work.
9. Jim Bress to collect name and scope suggestions from Item 8 and circulate them to TR-41 quorum members for vote. If there is not unanimous agreement, the list of candidate names and scopes is to be sent out to all TR-41 email reflectors for vote.

## Annex C

## Tentative TR-41 Meeting Schedule for April 29 to May 3, 2013 in Santa Cruz

Room			
MONDAY 0830 – 1230 29 Apr 2013	TR-41.3.5 / IEEE STIT Analog Tel Xmission Perf (Whitesell/Bareham – 15)		
MONDAY 1330 – 1730 29 Apr 2013	TR-41.3.5 Analog Tel Xmission Perf (Whitesell – 15)	IEEE STIT (Bareham – 5)	
MONDAY 1800 – 1930 29 Apr 2013	TR-41 Chair's Meeting (Whitesell – 10)		
TUESDAY 0830 – 1230 30 Apr 2013	TR-41.3.3 / IEEE STIT Digital Xmission Perf (Woo/Bareham – 15)	TR-41.7 Environmental & Safety (Ivans – 10)	
TUESDAY 1330 – 1730 30 Apr 2013	TR-41.3.3 Digital Xmission Perf (Woo – 15)	TR-41.7 Environmental & Safety (Ivans – 10)	IEEE STIT (Bareham – 5)
TUESDAY 1900 - 2200 30 Apr 2013			
WEDNESDAY 0830 – 1230 01 May 2013	TR-41.3.14 / IEEE STIT Acoustic Accessibility (Bress/Bareham – 15)	TR-41.9 Regulatory (Vacant – 15)	
WEDNESDAY 1330 – 1730 01 May 2013	TR-41.3.14 Acoustic Accessibility (Bress – 15)	TR-41.9 Regulatory (Vacant – 15)	IEEE STIT (Bareham – 5)
WEDNESDAY 1900 – 2200 01 May 2013			
THURSDAY 0830 – 1230 02 May 2013	TR-41.3 Wireline Terminals (Bress – 15)	IEEE STIT (Bareham – 5)	
THURSDAY 1330 – 1730 02 May 2013	TR-41.3 Wireline Terminals (Bress – 15)	IEEE STIT (Bareham – 5)	
THURSDAY 1900-2200 02 May 2013			
FRIDAY 0800 – 1030 03 May 2013	TR-41 Closing Plenary User Premises Equipment (Whitesell – 10)		