Approved by General Counsel

TR-41 Meeting Report

Date(s): 02/14/2014 - 02/14/2014

Location: Dallas- Forth Worth

Approved: 03/05/2014

Telecommunications Industry Association
Standards and Technology Department

Engineering Committee TR-41
Performance and Accessibility for Communications Products

Meeting Report

Chair: Stephen R. Whitesell   Date: February 14, 2014
Vice-Chair: (Vacant)   Venue: Embassy Suites Love Field
Secretary: (Vacant)   City: Dallas, TX

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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 8:05 am, and the attendees introduced themselves.

    b. **Roll Call and Quorum**

    Roll call was taken and a quorum was declared with 5 of 5 voting member companies represented. Since Uniden has decided not to continue its TIA membership for 2014, it was removed from the quorum list prior to the determination of quorum.

    1) **Quorum Members or Alternates Present**

AST – James Bress	UL – Randy Ivans
Cisco – Tim Lawler	Whitesell Consulting – Steve Whitesell
Plantronics – Allen Woo	

    2) **Quorum Members Absent**

    None

    3) **Others Present**

Industry Canada – Jason Nixon	TIA Staff – Marianna Kramarikova
Plantronics – Dan Selling	

    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 was submitted for review. It included the addition of a liaison report concerning a support letter for the Telecom Access Rehabilitation Engineering Research Center at Gallaudet University as Item 4.c, deletion of Item 6.a concerning a ballot comment resolution proposal for the TR-41 Operational Guidelines, and updating of contribution numbers relevant to some of the agenda items. The revised agenda was unanimously approved.

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

The chair took note of the recognition event that had been held on Wednesday evening in which a total of 31 certificates were issued to 11 different people in acknowledgement of the written contributions they had made to 5 recently published documents. In addition, a "lifetime achievement" award was presented to Al Baum recognizing his contributions to some 31 standards documents over a span of 19 years as Uniden's representative to TR-41. James Bress of AST Technology Labs also presented Al with a "Golden 500 Set" to commemorate his efforts in driving the use of improved acoustic testing procedures and the adoption of Conversational Gain as the measure for receive volume control.

The chair asked for participants' opinions of the meeting venue. The general consensus was that it was very nice hotel but that the lack of nearby restaurants was a negative.

g. TIA Staff Remarks

Marianna Kramarikova reviewed her contribution TR41-14-02-010-L providing information from TIA on several topics. The main points she covered were as follows:

1. Herb Congdon is VP of Standards, replacing Cheryl Blum

2. Procedures for American National Standards (PANS) approved by TC and in effect from October 24, 2013; Approved by ANSI on January 29, 2014 – updated version posted at http://www.tiaonline.org/sites/default/files/pages/TIA_PANS_2014Jan29_0.pdf.

   Draft of new Engineering Committee Operating Procedures (ECOP) will be submitted to TSSC during the call on February 18, 2014. Final ECOP will replace current Engineering Manual.

3. TIA-2014 Conference is June 3-4, 2014 in Dallas, TX (www.tia2014.org). Submissions are still being processed.

4. TIA-4953 marketing campaign – no update

   TR-41 survey – no update

   RERC call took place 02/13/2014

5. List of current Lyris list members can be found at: Committee Member Tools/Committee Member List. Marianna encouraged leadership to review and suggest any changes.

6. In 2013 TIA initiated quarterly internal audits of ANSI standards – comments are shared among TIA managers, process is being updated. Any comments on TR-41 documents will be shared with the group at next leadership meeting.

Marianna also welcomed new Associate Member of TIA: Industry Canada – Jason Nixon

    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 13, 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: TR41.3 previously voted in November 2013 to send the document out for publication provisioned on no non-editorial comments received from ANSI. The ANSI ballot closed and the editor, (James Bress, AST Technology Labs) will submit the document to TIA for publication.

      Target Completion Date: 2/2014

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

      Current Status: Standard was published by TIA on December 3, 2013. Project is complete.

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

      Current Status: Standard was published by TIA on December 3, 2013. Project is complete.

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

      Current Status: Standard was published by TIA on December 3, 2013. Project is complete.

    - ANSI/TIA-PN-470.210-E, Resistance and Impedance Performance Requirements for Analog Telephones

      Current Status: Standard was published by TIA on December 3, 2013. Project is complete.

    - ANSI/TIA-PN-470.220-C Reaffirmation, Alerter Acoustic Output Performance Requirements for Analog Telephones

      Current Status: The reaffirmation ballot passed with no negative votes. TR41.3 voted unanimously to reaffirm ANSI/TIA-470.220-C.

      Target Completion Date: 03/2014

      Plenary Action Requested: TR41.3 requests the concurrence of TR41 to reaffirm ANSI/TIA-470.220-C

      Plenary Action Taken: Unanimous

    - ANSI/TIA-PN-470.220-D, Alerter Acoustic Output Performance Requirements for Analog Telephones

      Current Status: The ANSI/TIA-PN-470.220-D project to revise ANSI/TIA-470.220-C was delayed to allow time for the ANSI/TIA-470.220-C reaffirmation ballot to close and the process to complete. TR41.3 previously voted in November 2013 to send the ANSI/TIA-PN-470.220-D draft for an ANSI ballot. The editor, (James Bress, AST Technology Labs) will submit the document to TIA for an ANSI ballot.

      Information: Because the ANSI 10-year action deadline for ANSI/TIA-PN-470.220-C is in April-2014, TR41.3 previously voted in November 2013 to open a project to reaffirm ANSI/TIA-PN-470.220-C (see above), voted to send the ANSI/TIA-PN-470.220-C document out for an ANSI ballot, and to submit the document to TIA for reaffirmation provisioned on no

ballot comments and no negative votes being received for the ballot. This action was taken to ensure the ANSI/TIA-PN-470.220-C standard does not lose its ANSI status. The revision project will continue as planned.

Target Completion Date: 08/2014

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

Current Status: This document will be updated when the TIA-920.xxx documents are 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 several new considerations regarding the sound field reference that will be used (diffuse-field and/or free-field), 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, and the fact that loudness ratings require calculating the frequency response relative to the ERP (Ear Reference Point). Additionally, IEEE-STIT continues to work on a new sound field reference "Natural Field". Wording and a strategy were developed for how to define compliance to the standard relative to a product's capability to provide narrowband and/or wideband transmission.

Target Completion Date: 11/2014

- 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: Steve Whitesell (Whitesell Consulting) agreed to be the editor and is requesting contributions. Updates to the document will include references and other requirements needed to support analog wideband transmission.

Target Completion Date: 12/2014

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

Current Status: A contribution from Don McKinnon and James Bress (AST Technology Labs) regarding HAC measurements with tones and measurements with speech was reviewed. Agreements were reached on how to specify speech as a test signal and the associated change in the requirements that were indicated to be needed in the AST contribution.

AST will provide further data with a suggestion for using a 1/3rd octave pulsed noise signal for distortion measurements instead of using tones.

It was agreed to use the same strategy developed for ANSI/TIA-920.110-B regarding how to determine compliance of a product relative to the product's capability to provide narrowband and/or wideband transmission.

Target Completion Date: 11/2014

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

- TR41.3 voted to open a project to revise ANSI/TIA-912-B (IP Telephony Equipment Voice Gateway Transmission Requirements. Steve Whitesell (Whitesell Consulting), agreed to be

the editor. One goal of the revision is to add requirements to support wideband analog transmission. It is expected that other requirements will be added or modified including attempting to harmonize with other industry standard where possible and practical.

Plenary Action Requested: TR41.3 requests the concurrence of TR41 to open a project to revise ANSI/TIA-912-B to be ANSI/TIA-912-C.

Plenary Action Taken: Unanimous

- TR41.3 received a presentation (remotely, via GoToMeeting) from John Morris and Ben Lippincott who are research scientists with the Georgia Tech RERC (Rehabilitation Engineering Research Center). Information was presented regarding statistics for people with disabilities (vision, hearing, and mobility) and the use of mobile devices (basic telephones, smart phones, tablets). TR41.3 thanks John Morris and Ben Lippincott for their time, work, and information and looks forward to a future presentation which could include data on HAC usage statistics.

- TR41.3.14 discussed the possibility of requesting the FCC to add another category to their accessibility clearinghouse web pages (http://ach.fcc.gov/). The category would likely be for communications devices and could include analog and digital interface telephones, and computer connected communications devices. This effort would likely include the need to develop a list of "Accessibility criteria" for these products.

- TR41.3.14 discussed the possibility of developing standards for PSAPs (Personal Sound Amplification Products) and possibly in-line amplifiers for telephone handsets. The working group agreed these products are within the scope of TR-41 but also recognized the need to bring manufactuerers of these products into the standards development effort.

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

Subcommittee TR-41.7 met on Tuesday, February 11, 2014 for only a ½ day due to weather delays. TR41.7.1 did not meet separately in Dallas.

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: The draft document had gone out for ballot. Even though the ballot is not yet closed, the subcommittee reviewed the ballot comments received to date. See TR41.7-14-02-005-L and TR41.7-14-02-007-L. Since there are a lot of changes required based on these comments it was decided to use -005 as a new baseline document for the meeting. The subcommittee reviewed and revised this document as TR41.7-14-02-005-MR1 which will now be the baseline document for further revisions. TR41.7-14-02-006-L dealing with adding random vibration as an alternative test was also reviewed and this was added to the new baseline document. The subcommittee expects that we will be able to complete the revision work at the May meeting and will have a newly revised draft completed for re-ballot at that time.

Target Completion Date: 08/2014

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

- TR41.7 held elections for the chair and vice chair. TIA received a letter of support from his management for Randy Ivans (UL LLC) to continue in the role of TR-41.7 Chair. No other nominations had been received so a call for nominations was made from the floor. None being received, a motion was made and seconded to waive the two term limitation for the current chair, Randy Ivans, and this was approved with all yes votes. Randy was then unanimously elected as chair for the next two years. The position of vice-chair remains vacant.

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

Subcommittee TR-41.9 met on Wednesday, February 12, 2014.

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. TR41.9 voted at the November meeting to submit 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. Due to some confusion this was not done. The document was re-reviewed without any changes and will be submitted for publication.

  Target Completion Date: 05/2014

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

  Current Status: Work was completed on the 2nd addendum to TIA-968-B at the last November meeting. See TR41.9-13-11-007-LR1-ANSI-TIA-968-B-2-Draft2.0. A project was opened but the ballot was delayed due to the ANSI call for interest period which is due to be completed March 7th. It is expected that the ballot will be released March 10th. Sending the document out for ballot was approved at the last plenary in November.

  Target Completion Date: 05/2014

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

  The project was approved at the last plenary but has not yet been opened. This will be done shortly. The subcommittee reviewed TR41.9-02-005 and -006 and made some revisions at the meeting recorded as TR41.9-14-02-006-MR1. A motion was made and seconded to send the revised draft out for committee ballot with the understanding that publication will need to be delayed until the ANSI/TIA-968-B-2 is published. The motion passed unanimously.

  Target Completion Date: 05/2014.

  Plenary Action Requested: TR41.9 requests concurrence from the plenary to send the revised draft out for ballot with the understanding that publication will need to be delayed until the 968-B-2 is published.

  Plenary Action Taken: Unanimous

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

  Current Status: No activity this meeting.

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**

   a. **ETSI STQ – Steve Whitesell**

      Contribution TR41-14-02-011 is a liaison letter from Chair Steve Whitesell to ETSI STQ Chair Andreas Kamcke announcing completion of the wideband analog telephone projects and plans to open a revision project on our IP Voice Gateways standard, ANSI/TIA-912-B. STQ was informed that the three new wideband analog telephone transmission standards (ANSI/TIA-470.112, .122, and .132) were published in December along with ANSI/TIA-470.210-E containing necessary revisions to the impedance requirements to accommodate wideband analog phones. They were also reminded that the loss plan requirements in ANSI/TIA-912-B are harmonized with ETSI ES 202 020 and invited to work with us to maintain that harmonization.

   b. **Efforts to Establish Formal Liaison with IEEE STIT – Steve Whitesell**

      Efforts to establish a formal liaison relationship with IEEE STIT have not progressed as hoped. Two of the four members of STIT who frequently attend when we hold collocated meetings have

obtained Engineering Committee Participant status via other means, but the Chair and Vice Chair of the group still do not have direct access to our documents for purposes of commenting on them. There is a work-around that will allow them to make a special request to obtain a copy of a document being sent out for ballot if they are properly identified at the time on the ballot submission form. We will need to use that work-around for now.

c. Telecom Access Rehabilitation Engineering Research Center (RERC) at Gallaudet University – Steve Whitesell

At the request of Linda Kozma-Spytek from the Technology Access Program (TAP) at Gallaudet University, Chair Steve Whitesell wrote a letter of support (TR41-14-02-012a-L) detailing our long history of working with Linda in developing accessibility standards. The letter was addressed to Christian Vogler, who is Director of the TAP, and discussed TR-41's interest in their proposed work on voice quality testing for people with hearing loss using a variety of wideband and narrowband codecs and how that might fit with our work to add wideband performance requirements and the use of real speech test signals to our ANSI/TIA-1083-A standard on magnetic coupling to hearing aids. The letter also discussed TR-41's potential interest in proposed TAP research relative to the use of text and video with speech to improve conversation quality, particularly as it relates to synchronization of audio and video. It is our understanding that the letter will be used to support the TAPS's request for funding to support the RERC.

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 2013 meeting as given in TR41-14-02-009-R1. Most items were noted as having been completed, but the following items still require action (see TR41-14-02-009-MR2 for updated list):

New Item 2: TR-41.3 to submit ANSI/TIA-PN-470.110-D for publication.

New Item 8: TR-41.3 to submit ANSI/TIA-PN-470.220-C-RFI for reaffirmation "publication" if no negative votes or comments requiring resolution are received on the ballot. Must be completed by April 2014 to avoid being administratively withdrawn from ANSI status.

New Item 9: TR-41.3 to continue revision efforts and submit ANSI/TIA-PN-470.220-D for ballot after editorial cleanup.

New Item 12: TR-41.9 to submit TIA-PN-31-D-2 for publication as TSB-31-D-2 as soon as the FCC completes its rulemaking to adopt ANSI/TIA-4965 by reference as the receive volume control requirements in Part 68.317 of its rules.

New Item 14: TR-41.9 to submit ANSI/TIA-PN-968-B-2 for ballot.

New Item 15: TR-41.9 to open a new project to create a third addendum to TSB-31-B to cover test procedures related to ANSI/TIA-PN-968-B-2 and other issues raised by Industry Canada.

New Item 16: 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 TR41-14-05-009 for the next meeting.

c. Project Status Review

Chair Steve Whitesell drew attention to the Project Status Spreadsheet (TR41-14-02-008). Steve indicated he is updating this spreadsheet based on information taken from the Subcommittee Chairs' reports, but he asked them to review the latest version and to let him know if there were any errors or corrections needed. He also noted that TIA is working diligently to get this information available on their web site, but additional clean-up effort is still needed in regards to the status of some projects.

6. Old Business

None.

7. New Business

None.

8. Meeting Schedules

a. Next Meeting

The next meeting will be held the week of May 12-16, 2014 and will be hosted by Industry Canada at their Lab in Kanata (Ottawa), ON. The preliminary meeting schedule for the various TR-41 subcommittees and working groups is given in Annex C. There is no designated meeting hotel with a reserved block of rooms, but several hotels are listed on the meeting notice posted at

http://tiaonline.org/standards_/committees/admin/rosters/documents/TR-41_Meeting_2014_05_12_Notice_Agenda.pdf

The meeting location is:

Industry Canada Laboratory
Building 94
3701 Carling Avenue
Ottawa, ON K2H 8S2
Canada

b. Future Meetings

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

Date	Location
August 18-22, 2014	Arlington, VA (TIA Headquarters)
November 10-14, 2014	Albuquerque / Tucson / Salt Lake City

9. Adjournment

There being no further business, the meeting was adjourned at 9:55 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

Number	Source	Description
TR41-14-02-001-MR1	Chair	Agenda
TR41-14-02-002-MR1	Chair	Document List
TR41-14-02-003	Chair	Arlington Meeting Report
TR41-14-02-004-MR1	Chair	Attendance Spreadsheet
TR41-14-02-005-MR1	Bress	TR-41.3 Chair's Report
TR41-14-02-006-MR1	Ivans	TR-41.7 Chair's Report
TR41-14-02-007-MR1	Ivans	TR-41.9 Chair's Report
TR41-14-02-008-L	Chair	Project Status Spreadsheet
TR41-14-02-009-MR2	Chair	Arlington Action Item List
TR41-14-02-010-L	Kramarikova	TIA Staff Report
TR41-14-02-011	Chair	Liaison to ETSI STQ on Wideband
TR41-14-02-012a-L	Chair	Support Letter for Telecom Access RERC
TR41-14-02-012b-L	Chair	Email Re Support Letter for Telecom Access RERC

Annex B
Action Items

Carry-over Items from Previous Meeting(s)

1. TR-41.3 to submit ANSI/TIA-PN-470.110-D for publication. Must be completed by April 2014 to avoid being administratively withdrawn from ANSI status.

2. TR-41.3 to submit ANSI/TIA-PN-470.220-C-RFI for reaffirmation "publication". Must be completed by April 2014 to avoid being administratively withdrawn from ANSI status.

3. TR-41.3 to continue revision efforts and submit ANSI/TIA-PN-470.220-D for ballot after editorial cleanup.

4. TR-41.9 to submit TIA-PN-31-D-2 for publication as TSB-31-D-2. Document will be submitted for TIA internal (legal) review but note will be included on submission form to hold (not publish) until advised by TR-41.9. TR-41.9 will advise TIA go ahead and publish as soon as the FCC completes its rulemaking to adopt ANSI/TIA-4965 by reference as the receive volume control requirements in Part 68.317 of its rules.

5. TR-41.9 to submit ANSI/TIA-PN-968-B-2 for ballot.

6. TR-41.9 to open a new project to create a third addendum to TSB-31-B to cover test procedures related to ANSI/TIA-PN-968-B-2 and other issues raised by Industry Canada.

7. 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 open project to revise TIA-912-B to become TIA-912-C.

2. TR-41.9 to submit TIA-PN-31-D-3 (to become TSB-31-D-3) for ballot.

Annex C
Tentative TR-41 Meeting Schedule for May 2014 in Kanata (Ottawa), ON

Room			
MONDAY **0830 – 1230** **12 May 2014**	**TR-41.3.5** **Analog Tel Xmission Perf** **(Whitesell – 10)**		
MONDAY **1330 – 1730** **12 May 2014**	**TR-41.3.5** **Analog Tel Xmission Perf** **(Whitesell – 10)**		
MONDAY **1800 – 1930** **12 May 2014**	**TR-41 Chair's Meeting** **(Whitesell – 10)**		
TUESDAY **0830 – 1230** **13 May 2014**		**TR-41.7** **Environmental & Safety** **(Ivans – 10)**	
TUESDAY **1330 – 1730** **13 May 2014**	**TR-41.3.14** **Acoustic Accessibility** **(Bress – 10)**	**TR-41.7** **Environmental & Safety** **(Ivans – 10)**	
TUESDAY **1900 - 2200** **13 May 2014**			
WEDNESDAY **0830 – 1230** **14 May 2014**	**TR-41.3.3** **Digital Xmission Perf** **(Woo – 10)**	**TR-41.9** **Regulatory** **(Vacant – 10)**	
WEDNESDAY **1330 – 1730** **14 May 2014**	**TR-41.3.3** **Digital Xmission Perf** **(Woo -10)**	**TR-41.9** **Regulatory** **(Vacant – 10)**	
WEDNESDAY **1900 – 2200** **14 May 2014**			
THURSDAY **0830 – 1230** **15 May 2014**	**TR-41.3** **Wireline Terminals** **(Bress – 10)**		
THURSDAY **1330 – 1730** **15 May 2014**	**TR-41.3** **Wireline Terminals** **(Bress – 10)**		
THURSDAY **1900-2200** **15 May 2014**			
FRIDAY **0800 – 1030** **16 May 2014**	**TR-41 Closing Plenary** **User Premises Equipment** **(Whitesell – 10)**		