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Approved by General Counsel

TR-41 Meeting Report

Date: 02/11/11

Location: LakeBuenaVista, FL

Approved: 02/22/11

**Telecommunications Industry Association
Standards and Technology Department**

**Engineering Committee TR-41
User Premises Telecommunications Requirements**

Meeting Report

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

Date: February 11, 2011
Venue: Embassy Suites
City: Lake Buena Vista, FL

1. Call to Order and Opening Business

a. Call to Order and Introductions

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

b. Roll Call and Quorum

Roll call was taken and a quorum was declared with 5 of 8 voting member companies represented.

1) Quorum Members or Alternates Present

AST – James Bress

Cisco – Tim Lawler

Littelfuse – Phillip Havens

UL – Randy Ivans

VTech – Steve Whitesell

2) Quorum Members Absent

CenturyLink – Amar Ray

Plantronics – Allen Woo

Uniden – Al Baum (excused)

3) Others Present

Industry Canada – Efrain Guevara

Industry Canada – Wen Kwan

Industry Canada – Matthew Mulvihill

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 modifications to include an additional liaison report and to indicate TR-41.3 Vice-Chair would be giving that subcommittee's report in place of Chair Al Baum, whose absence is excused.

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 discussed the agreement made with TIA Staff to place all standard drafts in the password-protected Working folder of the TIA website rather than in the Public folder. In the past, only final drafts ready for ballot or publication have been placed in the Working folder. In the near future, individual passwords will be implemented rather than a global password.

A recognition event will be held during the May meeting, most likely on Wednesday night.

The Chair reminded the group that elections are coming up in November and requested attendees to consider running for Chair and Vice-Chair positions. He cited recent occurrences that demonstrate the need for filling both positions for each formulating group.

The Chair asked the group for their opinion on the week's venue. The general consensus was that it was acceptable.

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 – Jim Bress for Al Baum

Subcommittee TR-41.3 met on Thursday, February 10, 2011. Its various working groups met during the week from Monday through Wednesday.

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: Document was published in November 2010.

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

Current Status: Document was published in December 2010.

- SP-3-4350.110-RV4, Handset Acoustic Performance Requirements for Analog Telephones (to become TIA-470.110-D)

Current Status: Reviewed the wish list and added some items, edited some items and worked on some items in the document. Discussed a specification for the performance of amplified telephones presented by Jim Bress (AST). WG agreed that amplified telephone performance should be specified in a separate project and standard. Bress to propose this at the TR41.3 meetings. Discussed issues regarding eliminating RLR and specifying free-field levels only. Discussed need to change frequency response measurements to free-field.

Target Completion Date: 11/2011

- SP-3-4350.120-RV3, Speakerphone Acoustic Performance Requirements for Analog Telephones (to become TIA-470.120-C)
Current Status: The document was published on 02/11/2011.
- SP-3-4350.330-RV3, Telephone Answering Devices (to become TIA-470.330-C)
Current Status: The ballot closed on January 21, 2011 with 8 Approve, 3 Not Approve, 3 Abstain, and 2 Ballots Not Returned. It was noted that the AST vote was changed in this summary to “not approve” from “not returned” which was required due to TIA ballot system failure. The comments were reviewed and changes accepted by the editor, Steve Whitesell. The edited document will be submitted by the editor for re-ballot.
Target Completion Date: 08/2011
Plenary Action Requested: The Chair of TR-41.3 requests concurrence from TR-41 to submit SP-3-4350.330-RV3 for industry re-ballot.
Plenary Action Taken: TR41 unanimously concurred.
- PN-3-4705.000-RV1, Overview of Acoustic Requirements for Wideband Digital Wireline Telephones (to become TIA-920.000-A)
Current Status: Has been submitted to TIA Staff for legal review and publication. After it is published as TIA standard the group may request an Industry Ballot for this standard to make it an ANSI/TIA standard.
Target Completion Date: 05/2011 [Chair's note: Document was published immediately following meeting on 02/14/2011.]
- PN-3-4705.110-RV1, Transmission Requirements for Wideband Digital Wireline Telephones with Handsets (to become TIA-920.110-A)
Current Status: Has been submitted to TIA Staff for legal review and publication. After it is published as TIA standard the group may request an Industry Ballot for this standard to make it an ANSI/TIA standard.
Target Completion Date: 03/2011 [Chair's note: Document was published immediately following meeting on 02/14/2011.]
- PN-3-4705.120-RV1, Transmission Requirements for Digital Wireline Speakerphones (to become TIA-920.120-A)
Current Status: Received a contribution of the initial draft of the standard. The initial contribution was based on PN-3-4705.130-RV1 and referenced from TIA-810-B, SN-3-4350.120-RV3-A, IEEE Std 1329 and IEEE Std 269, etc standards. The initial draft was reviewed and edited during the meeting. The working group will be applying the methods and performance criteria developed for TIA-470.120-C to this standard as much as possible (e.g., level and not RLR).
Target Completion Date: 05/2012
- PN-3-4705.130-RV1, Transmission Requirements for Wideband Digital Wireline Telephones with Headsets (to become TIA-920.130-A)
Current Status: Has been submitted to TIA Staff for legal review and publication. After it is published as TIA standard the group may request an Industry Ballot for this standard to make it an ANSI/TIA standard.
Target Completion Date: 03/2011 [Chair's note: Document was published immediately following meeting on 02/11/2011.]
- SP-3-4159-RV1, Automatic Stutter Dialtone Detection Performance (to become TIA-855-A)
Current Status: Default ballot closes March 14, 2011. Expect vote to publish at May 2011 meeting.
Target Completion Date: 08/2011

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

- The sub-committee agreed to open a new project to develop a standard for the performance of amplified telephones for accessibility for hard of hearing people. There was a discussion on the possible need for deaf interpreters for sign language and captioning. Agreed this question will be presented to TIA staff as a side issue to the need for a press release. Trying to get participation from buyers and manufacturers of amplified telephones.

Plenary Action Requested: The Chair of TR-41.3 requests concurrence from TR-41 to open a new project to develop a standard for acoustic accessibility for people with hearing loss.

Plenary Action Taken: TR41 unanimously concurred.

- Agreed to open new working group TR-41.3.14 (Acoustic Accessibility for People with Hearing Loss).

Plenary Action Requested: The Chair of TR-41.3 requests approval from TR-41 to open a new working group TR-41.3.14 (Acoustic Accessibility for People with Hearing Loss). Note: approval is requested because TR41.3 did not officially vote to open a new working group.

Plenary Action Taken: Randy Ivans of UL seconded this motion from Jim Bress. TR41 unanimously approves.

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

Subcommittee TR-41.7 met on Thursday afternoon, February 10, 2011. The TR41.7.1 WG met on Wednesday afternoon and Thursday morning, February 9-10, 2011.

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

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

Current Status: A new contribution with a major update to the original draft outline is completed and will be uploaded as a contribution for the May meeting. Phillip Havens is driving this effort and during the meeting the committee reviewed his progress. We have not received any input from the ATIS STEP-NEP committee regarding any work they might be doing on this subject. We expect an update on their activities using an informal liaison by the May meeting.

Target Completion Date: Changed to 02/2012

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

Current Status: Because the draft document is out of synch with the current UL standard (1st edition), our current plan is to resolve the comments received from the ballot last August then file the document (rather than publish it) until such time as the 2nd edition is published by UL. Since we are not expecting to publish this anytime soon, it is a low priority item.

Target Completion Date: Changed to 08/2011

- PN-3-0402, Protection of Home Networking Systems related to SmartGrid Technologies (adjust project name as appropriate)

Current Status: The draft standard went out for ballot after the August meeting. We received a number of comments that need to be reviewed. We reviewed the comments at the meeting and made some significant changes to the draft. We also need the editor to make additional changes to some figures and clarify some of the test procedures. Finally, during the review we noted that some attachments related to the comments were missing and these have been requested and will require review. We plan to schedule a teleconference to review the comments and a revised draft. After the final resolution of the comments and a review of the final new draft we plan on re-balloting the standard. This is a change from our previous plan to just do a default ballot. TR41.7 plans to hold a teleconference to review the remaining comments and the revised draft version.

Target Completion Date: Changed to 08/2011

Plenary Action Requested: TR41.7 requests plenary concurrence to send the document out for re-ballot.

Plenary Action Taken: TR41 unanimously concurred.

- PN-3-3210-RV2, Radio Frequency Immunity Requirements (to become TIA-631-B)
Current Status: The document has been sent out for publication.
Target Completion Date: Changed to 02/2011

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

- TR41.7.1 spent most of the meeting reviewing material being proposed for UL62368-1 covering telecommunications issues. Phillip Havens, representing the TIA, will bring the TR41.7.1 input to the Technical Harmonization Committee for this standard at their March meeting. We expect that the TIA will be requested to edit some of the material on acoustic safety to put it in the new standard's format

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

Subcommittee TR-41.9 met on Wednesday, February 09, 2011 with 12 attendees (8 of 9 quorum members were present). Its 41.9.1 Working Group met on Tuesday with 10 attendees.

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

- PN-3-0017-RV2, TSB-129-B Telecommunications - Telephone Terminal Equipment - U.S.Network Connections Regulatory Approval Guide
Current Status: Published December 2010 and web-link recently corrected at TIA website.
- PN-3-3602-RV4, Rationale and Measurement Guidelines for TIA-968, (to become TSB-31-D)
Current Status: Editing and review completed. This document has been submitted for balloting.
Target Completion Date: 05/2011 (for ballot review to be completed and published)
Plenary Action Requested: Concurrence to proceed to publication IF no ballot comments are received. If ballot comments are received, TR 41.9 will conduct a conference call on April 5, 2011, for the purpose of resolving all editorial type comments and request concurrence then to proceed to publication. If other than editorial type comments are received, then TR41.9 requests concurrence to proceed to default letter ballot after these comments are reviewed and then proceed to publication if no further comments are received.
Plenary Action Taken: TR41 unanimously concurred.
- PN-3-4124, Responses to Part 68 and TIA-968 Questions (On-going effort)
Current Status: No new questions added during this meeting.

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

- Contribution TR41.9-11-02-005-M recommends TR-41.9 send a request to the FCC to edit Part 68 to include a reference to TIA-810-B, which changes the limits for digital ROLR to 49 dB (upper limit), 53 dB (nominal) and 57 dB (Lower limit). TIA-470.110-C should also be referenced in FCC Part 68 for the analog ROLR limits (zero loop – 46 dB nominal, 2.7 km loop - 48 dB, and 4.6 km loop - 50 dB with a tolerance of +/- 5 dB).
Plenary Action Requested: Send correspondence to the FCC to have Part 68 edited as indicated above (reference to these two documents). Request assistance from TR41.3 for any follow-up technical questions that may result from this edit request.
Plenary Action Taken: TR41 unanimously concurred (TR41 Chair will discuss with TIA staff for the best method approaching the FCC for this potential change).
- Industry Canada will also be revising CS-03, Part V, clause 5.1 Volume Control limits for digital phones to be harmonized with the limits in TIA-810-B. IC will also point to the TIA-470-C document for analog phones volume control limits.
- Officially the Chair position of TR 41.9 remains open. P. Havens is the “acting” Chair. The Vice-Chair position remains open.
- TR41.9 would like to recognize the contributors to TSB-31-D, specifically the Editor, Matt Mulvihill of Industry Canada, during our May 2011 TR41 meeting. The contributors to TSB-129-B should also be recognized during this meeting.

- TR41.9 members requested an additional “virtual” meeting per year and recommend the February meeting as the candidate for such a second meeting. Some members expressed concern over travel budgets, inclement weather conditions for February time frame, etc as reasons for this request. This would make for a 50-50 balance between face-to-face meetings vs virtual meetings.
- TR41.9 members expressed concern about the document size of TSB-129-B increasing substantially AFTER it was uploaded to TIA. It appears that the cover page and other items that TIA staff adds excessively increases document size. TR 41.9 requests an investigation into the cause and effect of the additional pages in an effort to keep these document sizes to a minimum. The TR41 Chair indicated that TIA staff has taken some actions that have helped relieve this issue and the Chair will specifically request TIA staff to reduce the TSB-129-B document size by this same technique.

4. Action Item Review

Although the action items from the November 2010 meeting as shown in Appendix C of that meeting report (TR41-11-02-003) were not formally reviewed, they were covered during the discussions of the Subcommittee Reports (Item 3) or during the Chairs’ Meeting on Monday evening. Appendix C of this document shows the new list of action items.

5. Liaison Reports

a. ITU Study Group 12 – Steve Whitesell

Announcement that ITU-T Study Group 12 has reached agreement on a new recommendation ITU-T P.863, Perceptual Objective Listening Quality Assessment (-009).

b. TIA Staff Request for Comments on TR-50 Proposal – Steve Whitesell

TR-50 has proposed that TIA adopt some form of online collaborative authoring tool for use in standards development. A Wiki tool is discussed in the proposal as a possibility. The proposal asks for feedback from other Engineering Committees and from TIA legal about whether such a tool meets the requirements of the Engineering Manual. This proposal was discussed in the Chairs’ Meeting on Monday evening and again in the Plenary. Comments from those who have used similar tools are that they can be quite effective. However, safeguards will be required to prevent someone with a strongly held but minority viewpoint from abusing the process. Training in the use of any such tool will be necessary.

6. Old business

The project spreadsheet was displayed and reviewed. Multiple balloting dates are not being tracked accurately. Some titles and document numbers were not correct. Subcommittee Chairs were asked to provide keener attention to these details. Chair Steve Whitesell indicated he had a few more items to check on and would then send out the new copy to all subcommittee chairs to use going forward.

The chair also noted that several leadership positions still remain open, but indicated it would probably make more sense at this point in time to try and fill them during the November elections.

7. New Business

The following five documents were developed by former TR-41 subcommittees that are no longer active and are up for their five-year review:

- TSB-116-A, Voice Quality Recommendations for IP Telephony (non ANSI document)**
- TIA-123-A, North American OSIG Interoperability Test Plan (non ANSI document)**
- TIA-811-A, Performance & Interoperability of VoIP Feature Telephones (non ANSI document)**
- TIA-1057, Link Layer Discovery Protocol**
- TIA-1062, Interface Requirements for Packet-Based Gateways**

After a short discussion, Chair Steve Whitesell made a motion these five documents be sent out for reaffirmation balloting. Phillip Havens seconded the motion. TR41 unanimously approved this motion.

8. Meeting Schedules**a. Next Meeting**

The next meeting will be held the week of May 16-20, 2011 in Grapevine, TX (Dallas area). 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:

Gaylord Texan
 1501 Gaylord Trail
 Grapevine, TX, 76051
 Phone: 1-817-778-2000
 Room Rate: \$149 Single (First come first serve) + \$10 resort fee
 \$199 Under the TIA Event rate. (if the room block is filled)
 Cutoff date: April 15, 2011

b. Future Meetings

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

Date	Location
August 8-19, 2011	Virtual
November 7-11, 2011	Las Vegas???

9. Adjournment

There being no further business, the meeting was adjourned at 10:25 AM. This meeting was conducted in accordance with the TIA Legal Guides and the Engineering Manual.

Phillip Havens
 Secretary, TR-41

Stephen R Whitesell
 Chair, TR-41

Appendix A
Tentative TR-41 Meeting Schedule for May 16-20, 2011

Room			
MONDAY 0830 – 1230 16 May 2011	TR-41.3.3 Digital Xmission Perf (Woo – 15)		
MONDAY 1330 – 1730 16 May 2010	TR-41.3.3 Digital Xmission Perf (Woo – 15)		
MONDAY 1800 – 1930 16 May 2011	TR-41 Leadership User Premises Equipment (Whitesell – 10)		
TUESDAY 0830 – 1230 17 May 2011	TR-41.3.2/41.3.12/41.3.5 [1] Various Working Groups (Bress, Ray, McKinnon – 15)	TR-41.9.1 Regulatory Working Group (Havens – 15)	
TUESDAY 1330 – 1730 17 May 2011	TR-41.3.5 Handset Telephones (McKinnon – 15)	TR-41.7.1 [2] Int'l Safety Standards (Ivans – 10)	
TUESDAY 1900 - 2200 17 May 2011			
WEDNESDAY 0830 – 1130 [4] 18 May 2011	TR-41.3.14 Acoustic Accessibility (Bress – 15)	TR-41.9 Regulatory (Havens – 15)	
WEDNESDAY 1430 – 1730 [4] 18 May 2011	TR-41.3.14 Acoustic Accessibility (Bress – 15)	TR-41.7.1 [3] Int'l Safety Standards (Ivans – 10)	
WEDNESDAY 1900 – 2200 18 May 2011	Recognition Event		
THURSDAY 0830 – 1130 [4] 19 May 2011	TR-41.3 Wireline Terminals (Baum – 15)	TR-41.7.1 Int'l Safety Standards (Ivans – 10)	
THURSDAY 1430 – 1730 [4] 19 May 2011	TR-41.3 Wireline Terminals (Baum – 15)	TR-41.7 Environmental & Safety (Ivans – 10)	
THURSDAY 1900-2200 19 May 2011			
FRIDAY 0800 – 1030 20 May 2011	TR-41 Plenary User Premises Equipment (Whitesell – 15)		

- Notes: 1. TR-41.3.2 and TR-41.3.12 will meet in series on Tuesday morning for ballot resolution. TR-41.3.5 will meet for the remainder of the morning and during the afternoon.
2. TR-41.7.1 will meet on Tuesday after TR-41.9.1 finishes.
3. TR-41.7.1 will meet on Wednesday after TR-41.9 finishes.
4. An extended lunch hour is scheduled for Wednesday and Thursday so that meeting attendees may visit the TIA2011 – Inside the Network trade show exhibits.

**Appendix B
Document List**

<u>Number</u>	<u>Source</u>	<u>Description</u>
TR41-11-02-001-MR1	Chair	Agenda
TR41-11-02-002-R3	Chair	Document List
TR41-11-02-003	Secretary	Teleconference Meeting Report
TR41-11-02-004-MR1	Chair	Attendance Spreadsheet
TR41-11-02-005-MR1	Bress	TR-41.3 Chair's Report
TR41-11-02-006-MR1	Ivans	TR-41.7 Chair's Report
TR41-11-02-007-MR1	Havens	TR-41.9 Chair's Report
TR41-11-02-008-MR2	Whitesell	TR-41 Project Status Spreadsheet
TR41-11-02-009a	ITU-T SG12	Email Cover for Liaison on New Draft Recommendation P.863
TR41-11-02-009b	ITU-T SG12	Liaison re New Draft Recommendation P.863 on Perceptual Objective Listening Quality Assessment
TR41-11-02-010a	V Mitchell	Email Request for Comments on TR-50 Proposal
TR41-11-02-010b	TR-50	Proposal for Adopting Collaborative Document Authoring Tools

Appendix C List of Action Items

The following action items were identified during the meeting. Where an item is shown assigned to a Subcommittee, the Chair of the Subcommittee is responsible for completing the action item or delegating someone else (e.g., document editor) to do so.

1. TR-41.3 to submit TIA-470.330-C for re-ballot after editor Steve Whitesell implements changes agreed upon during ballot resolution.
2. TR-41.3 to open a new project to develop a standard on acoustic accessibility for people with hearing loss.
3. TR-41.3 Vice-Chair to work with TR-41 Chair and TIA Staff in developing a press release and publicity for new project on acoustic accessibility for people with hearing loss. Also need to discuss possible need for ASL interpreters and captioners depending on who may decide to participate in this project.
4. TR-41 Chair to notify TSSC about establishment of new TR-41.3.14 Working Group for Acoustic Accessibility.
5. TR-41.7 to seek input from ATIS STEP-NEP on Ethernet First Mile Overvoltage Tests project through informal liaison.
6. TR-41.7 to hold teleconference to review changes made to the draft TIA-1194 SmartGrid device protection standard as a result of ballot comments.
7. TR-41.7 to re-ballot TIA-1194 after teleconference review.
8. TR-41.7 to follow up on publication of TIA-631-B.
9. TR-41.9 to submit TSB-31-D for publication if no comments are received on ballot that closes March 12, 2011.
10. TR-41.9 to hold teleconference on April 5, 2011 to resolve comments on TSB-31-D if comments are received.
11. TR-41.9 to submit TSB-31-D for publication if all comments received on current ballot are editorial and resolved in April 5th teleconference.
12. TR-41.9 to submit TSB-31-D for default ballot if comments received on current ballot are resolved in April 5th teleconference by making technical changes to the document.
13. TR-41.9 to submit TSB-31-D for publication if a default letter ballot is held and results in no further comments.
14. TR-41 Chair to discuss with TIA staff the best method for requesting the FCC to replace the outdated references in Part 68.317 for receive volume control and then make such a request. Specifically reference to TIA-470-A for analog phones should be changed to TIA-470.110-C and reference to TIA-579 for digital phones should be changed to TIA-810-B.
15. TR-41 Chair will request the file size of TSB-129-B accessible by a link on the TR-41 web page be reduced by replacing the covers on the document as has been done for other documents.
16. TR-41 Chair to organize recognition event for May meeting.
17. TR-41 Chair to provide feedback to Victoria Mitchell on comments made during discussion of liaison report on TR-50 proposal for collaborative authoring tool.
18. TR-41 Chair to send out revised Project Status Spreadsheet to subcommittee chairs for use going forward.
19. TR-41 Chair to open reaffirmation project and submit TSB-116-A for reaffirmation ballot.
20. TR-41 Chair to open reaffirmation project and submit TIA-123-A for reaffirmation ballot.
21. TR-41 Chair to open reaffirmation project and submit TIA-811-A for reaffirmation ballot.
22. TR-41 Chair to open reaffirmation project and submit ANSI/TIA-1057 for reaffirmation ballot.
23. TR-41 Chair to open reaffirmation project and submit ANSI/TIA-1062 for reaffirmation ballot.