Telecommunications Industry Association
Standards and Technology Department

Engineering Committee TR-41
User Premises Telecommunications Requirements

Meeting Report

Chair: Stephen R. Whitesell	**Date: November 17, 2000**
Vice-Chair: Roger W. Britt	**Venue: Westin Harbor Resort Hotel**
Secretary: Harry A. Van Zandt	**City: Savannah, GA**

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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 11 of 16 voting member companies represented. Four additional companies in good standing (Avaya, ECS Technologies, eOn Communications, and Wyle Labs) had representatives present for the second consecutive meeting and were added to the quorum list after roll call.

1) Quorum Members or Alternates Present

AST – James Bress	Mobile Engineering – Steve Bipes
CCL – Anh Wride	Nortel – Pierre Adornato
Circa – Phil Holland	Siemens – Richard Frank
Cisco – John Combs	Telcordia – John Balinski
Lucent – Tony Caggiano	VTech – Steve Whitesell – Chair
Mitel – Greg Slingerland	

2) Quorum Members Absent

Atlinks – Clint Pinkham	Sprint - Cliff Chamney
MIS Labs – Jim Romlein	Verizon – Richard Panko
SBC – John Roquet	

3) Quorum Members Added after Roll Call

Avaya – Joanne McMillen	eOn Communications – Peter Melton
ECS Technologies – Harry Van Zandt	Wyle labs – Jim Smith

4) Others Present

3M Telecom Systems – Bob Jensen	Industry Canada – Henry Mar
CSA International – Ajmer Bal	Mobile Engineering – John Bipes
Circa – Peter Baker	Nortel – Roger Britt
ETSI STQ Liaison – Joachim Pomy	TIA Staff – Stephanie Montgomery

c. Review and Approve Agenda

The agenda [TR-41/00-11-062] was approved.

d. TIA Patent Policy

The Chair read 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:

> There is no objection in principle to drafting a TIA Publication in terms that may require the use of a patent. Participants in the work of the TR-41 are urged to review the Patent Policy in TIA's Engineering Manual. An electronic version of the Engineering Manual is available on TIA's website at www.tiaonline.org, or a copy may be obtained from the TIA Secretariat.

> Individual participants are encouraged to notify TIA of any patents or pending patent applications that may be essential to the practice of a proposed TIA Publication. Such notification should be made early in the development process to reduce the possibility for delays and increase the likelihood that the proposed TIA Publication will be approved. The participant making such a disclosure will be requested to have his/her company submit a statement concerning its willingness to license the essential patents as set forth in Annex H to the Engineering Manual. The disclosure need not (but may) identify the specific patents or pending patent applications that may be essential to the practice of the proposed TIA Publication.

> Patent searches are not required to comply with the TIA Patent Policy.

The Chair then asked if anyone wished to make such a disclosure. No one indicated a desire to do so.

e. Chair's Remarks

A reminder was given to provide all chair's report electronically.

All contributions to the Plenary needing balloting are to be sent to the chair even if editorial changes have not been made.

f. TIA Staff Remarks

Stephanie Montgomery reported there would be some upcoming organizational changes within TIA in order to better serve members needs. Details were not available.

2. Previous Meeting Report

The report of the Vancouver, B.C. meeting [TR-41/00-11-061] was reviewed and approved without change.

3. Subcommittee Reports and Requests

TR-41's subcommittees and working groups met at various times from Monday, November 13, 2000 through Thursday, November 16, 2000.

a. TR-41.1 – Multiline Terminal Systems – Richard Frank for Tailey Tung

PN 4689, "Voice Quality Recommendations for IP Telephony", was approved to be sent to the TR41 Plenary for letter ballot as TSB 116. The request for ballot was unanimously approved by the Plenary [TR-41/00-11-064].

b. TR-41.2 – Conformity Assessment – Pierre Adornato

The sub-committee met to review the status of the Mutual Recognition Agreements with the EU and in APEC and CITEL.

It was also reported that, at an open FCC meeting on Nov.9, the FCC commissioners unanimously approved the Part 68 streamlining order. This report and order culminates about 18 months worth of activity. Among the provisions of this order which are of interest are the adoption of Supplier's Declaration of Conformity (SDoC) for wireline terminal equipment and the turning over of the upkeep and maintenance of most Part 68 terminal attachment rules to industry Standards Development Organizations.

The Commission, as expected, will still control the technical rules and requirements relating to HAC (Hearing Aid Compatibility) to ensure that access for persons with hearing disabilities is not compromised. Although the actual text of the order is not immediately available, it is expected to be released within the next two weeks, if not earlier.

On a going forward basis, in order to help compress the overall meeting schedule, the next TR41.2 meeting will be held immediately after the termination of the TR41.11 meeting.

c. **TR-41.3 – Analog and Digital Wireline Terminals**

The five TR-41.3 working groups held meetings this week.

TR41.3.1 (Caller ID) have completed the ballot for SP-4078RV. There were five approved ballots, two approved with comments and one no vote. The no vote comments were to delay going forward with the revision of the standard until Telcordia publishes SR-3004 Issue 3 Draft. The working group has agreed to defer going forward until May or until the draft of SR-3004 can be reviewed to determine if the documents can be harmonized.

TR41.3.2 (Stutter Dial Tone) completed the industry ballot of SP-4159. There were two no votes that could only be resolved by making significant technical changes. The working group accepted the changes and the revised draft will be available shortly. The changes make it necessary to have a new ballot conducted. TR-41.3 approved a motion to send the document to the plenary with a request to have it sent out for a new ballot. The request for re-ballot of SP-4159 was unanimously approved by the Plenary [TR-41/00-11-070].

TR-41.3.3 (VoIP/PCM Transmission Performance) has completed the industry ballot of SP-4352 URV. Eight approve ballots and two approve with comments were received. All the comments were editorial and were resolved. TR.41.3 voted to approve a request to have the plenary forward the document to be published as ANSI/*TIA/EIA-810-A* "*Transmission Requirements for Narrowband Voice over IP and Voice over PCM Digital Wireline Telephones".* The request to publish the document was unanimously approved by the Plenary [TR-41/00-11-071].

This standard contains information that can be used internationally so attempts should be made to have it adopted in whole or part by the ITU. To start this process a TIA liaison letter should be sent to the ITU with a request that TIA/EIA-810-A be adopted by the ITU to replace P.310, P.340 and parts of P.360. A motion was passed by TR41.3 to request that the plenary determine how the liaison letter should be sent to the ITU and to proceed with the liaison letter. The request for providing the text of TIA/EIA-810-A to the ITU was unanimously approved by the Plenary [TR-41/00-11-073]. The subcommittee will assist with the preparation or the liaison letter. Stephanie Montgomery indicated there is a prescribed method for making such liaison contributions.

TR-41.3.4 (VoIP Terminals) is working on a revision of TIA/EIA-IS-811. They have decided that the revised document should be upgraded to an ANSI standard when completed. TR-41.3 approved a motion to request the PIN be modified to include both a revision and upgrade to an ANSI standard. The work is expected to be completed in about 12 months. The request for a modified PIN to upgrade as well as revise the document was unanimously approved by the Plenary [TR-41/00-11-072].

TR-41.3.5 (TIA-470B Revision) continues to work on the revision of 470B.

A request was made by the TR-41.3 Chair James Bress to start a project to revise EIA/TIA 504-A to 504-B. The request was unanimously approved by the Plenary [TR-41/00-11-074].

There will be an interim meeting of TR41.3.5 RF Ad Hoc Working Group in Melbourne, FL on January 17, 18 and 19. Additional details will be forwarded to TIA for distribution to members.

d. **TR-41.4 – IP Telephony Infrastructure and Interworking – Phil Holland for Bob Bell**

A number of issues have been identified with TSB-122, *IP Telephony Equipment Voice Gateway Loss and Level Plan Guidelines*. The subcommittee has approved a project to revise the TSB and requests a PIN to allow the project to proceed. The request for a PIN to revise TSB-122 was unanimously approved by the Plenary [TR-41/00-11-065].

The actual work on revising TSB-122 has been completed. The draft was reviewed by TR-41.4 and a motion to request that it be sent out for ballot was unanimously approved. The request for sending the revision of TSB-122 out for ballot after a PIN is obtained was unanimously approved by the Plenary [TR-41/00-11-066]. A final copy is available today and will be provided to TIA.

The sub-committee identified that was sufficient information and work required to start moving the Enhanced 911 project (PN-4726) into draft form. To facilitate this, a ½ day working group would meet separately to develop this document. The meetings will take place in the afternoon of the usual TR-41.4 meeting so additional time slots and rooms are not required at the next meeting. John Combs and Mo Zonoun volunteered to be co-editors of the draft.

The goal for completion of PN4826 Voice Gateway Transmission Requirements is May 2001, with moving to ballot after that. The current draft is well fleshed out but additional contributions needed in particular in sections 7, 8, 9, and 10. Additional contributions and editing are still needed to refine the document. Richard Hatherill is editor.

VoIP telephony systems offer many advantages and opportunities to improve total communications for people with disabilities such as the deaf. VoIP systems also have compatibility problems with existing devices such as acoustic coupled TDDs. The subcommittee will investigate these issues with the intent of producing a TSB that will identify the difficulties that need to be resolved and opportunities that should be considered. Peter Baker and John Combs volunteered to prepare a skeleton document that summarized what we have learned so far, so information is not lost. This project can then be evaluated as to how it will move forward from there.

Richard Hatherill presented a liason Report with respect to TIA loss level planning and harmonization with European loss and level plans. Consideration will be given to include this information in future work.

e. TR-41.5 – Multimedia Systems and Equipment – Jim Romlein

All comments on the ballot of SP-4657, *A Full Duplex Ethernet Physical Layer Specification for 1000 Mb/s (1000 Base-TX) Operating over Category Balanced Twisted Pair Cabling* were reviewed and accommodated by the subcommittee. Three technical changes were made to accommodate comments on symbol mapping, return loss and delay. The subcommittee recommended the revised document be sent out for default letter ballot on the technical changes made. The request for a default ballot on SP-4657 was unanimously approved by the Plenary [TR-41/00-11-067].

f. TR-41.7 – Environmental and Safety Considerations – Steve Bipes

TR41.7.1 Harmonization of International Safety Standards met Monday 11/13/00 in a joint meeting with T1E1.7 Of the 3 action items from the Vancouver Plenary with requests to UL, 2 have since received favorable action. UL approved TR41/00-08–51, which was the TIA proposed technical outline that will allow UL listing of legacy CO equipment with remote power feeding to a separate UL category to requirements similar to UL1950 but with electric strength testing in lieu of minimum spacings. This technical outline will be implemented within the next several weeks.

UL also approved TR41 00-08–52, which was a TIA proposed Practical Application Guideline (PAG) allowing an alternate test method for the leakage current due to ring signaling test.

TR41 00-08–53 concerning the force test on wire-wrap pins was initially rejected by UL. We will be modifying our proposal to UL by proposing a reduced force limit for the wire-wrap pins in lieu of an elimination of the test.

The TR-41.7 subcommittee proposes that TIA request UL to consider modification of their component recognition program to close the loophole on the approval to UL1950 of telecom interface components which are not meeting minimum requirements. This loophole allows the subsequent flooding the market with substandard parts and contributes to potential competitive disadvantage between manufacturers.

In specific – TIA should request that UL issue a statement that component constructions providing less-than-basic-insulation which also require end-equipment retesting - for components submitted primarily for the purposes of providing a specific level of UL1950 insulation – be allowed – but not recognized – i.e. not allowed under the UL recognition program. This will leave open the approval of these specific constructions for special end-equipment environments but will close the approval path for the vast majority of components which are submitted for recognition and for which the sub-standard special constructions are not allowed.

The Plenary was asked for concurrence with this action. The request was unanimously approved by the Plenary [TR-41/00-11-068]. Steve Bipes will draft the letter to UL on this matter.

A joint meeting between TIA TR 41.7.2, ATIS T1E1.5 and T1E1.7 was held on November 15th chaired by Mr. Percy Pool, Ms. Debbie Ryan was the secretary, and Mr. James Romlein led the discussion and document review.

TIA/EIA Standard Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications PN-4351 Draft 4 November 15, 2000 was reviewed line by line and it was unanimously recommended that PN-4351 be voted out of committee for industry ballot. TIA Committee TR 41, TIA Committee TR 42, and ATIS Committee T1 are to be included in the ballot pool. The document is to be published as a Joint

TIA/ATIS Standard. The request to send PN-4351 out for industry ballot was unanimously approved by the Plenary [TR-41/00-11-069].

TR41.7.3 EMC Considerations was reactivated on Monday and met jointly with T1E1.7. Don McKinnon (chair of 41.3.5) was elected chair of the working group. Their primary work item is the five year review of TIA-631. Editing will begin at the February meeting.

TR41.7 and all of its working groups met jointly with T1E1.7. The initial scheduling was challenging but the joint meeting was well received in principle. A few complaints came in concerning the overlap with other committees including TR41.9 and TR41.11, and also the change from the traditional meeting day of Thursday. TR41.7.3 will meet jointly with T1E1.7 in February. The other working groups and subcommittee will meet separately in the next meetings but will plan on another joint meeting later in 2001.

41.7 and TR41.7.1 in their requests to UL on standards issues will continue to work in parallel with CSA so as to reinforce the Canadian-US harmonization which the TIA strongly supports.

g. **TR-41.9 – Terminal Attachment Programs – Anh Wride**

TR41.9 met on Tues and Wed this week. Some of the items discussed that are of interest to the Plenary are:

   a. The FCC News Release on the streamlining of Part 68 on Nov 9th which will privatize the formulation of the technical requirements of Part 68 to an industry group and will allow the use of the SDOC as well as the TCB certification program as options to demonstrating compliance with Part 68.

   b. In anticipation of the Report and Order, a working group (TR41.9.1) has been formed under TR41.9 to start reviewing and formatting the current Part 68 into an ANSI format. Anyone interested in chairing the new committee, please notify Anh Wride

   c. TR41.9 is also working on the development of a matrix for xDSL equipment, with proposed technical criteria taken from the T1E1 Loop Spectrum Management Standard. The intent is to formulate network protection technical criteria for future inclusion of xDSL equipment in Part 68. This project started out as a support project to an FCC request for acceptable industry criteria in possible Part 68 waiver requests concerning xDSL equipment. In light of the News Release on the Part 68 streamlining, the group will place less emphasis on the waiver procedures and more emphasis on the technical criteria to be submitted into the privatized Part 68. TR41.9 members met jointly with T1E1.4 members on Wed to gather feedback on the proposal.

h. **TR-41.10 – Private Integrated Services Networks - Mo Zonoun**

This subcommittee did not meet this week

i. **TR-41.11 – Administrative Regulatory Considerations – Greg Slingerland**

TR-41.11 has approved a few additions to revision 3 of the Part 68 Application Guide. It will be published to the TIA web site within the next month. We are still working the issue of if and maybe how to apply the Hearing Aid Compatibility requirements to IP Telephones. We will be reacting to the text of the FCC's Report and Order on Part 68 Streamlining when it becomes available, hopefully within the next few weeks. This may mean an interim meeting held by teleconference before the next TR41 meeting in February.

After discussion with the TR41.11 and TR41.9 attendees, the TR41.11 Chair requests that at our next meeting in Costa Mesa, California, TR41.11 occur all day on Tuesday.

4. **Liaison Reports**

a. **TAPAC**

TAPAC and its Task Forces last met October 26-27, 2000 in Ottawa. The letter ballot on SDSL as a provisional requirement was approved. The proposed provisional document will be published after translation. Another letter ballot for inclusion of HDSL2 by amendment to Part VIII of CS-03 was also approved. An amendment 4 to CS-03 will be published after translation.

Industry Canada has been coping with considerable delays in approving the Telecom Regulations, mostly due to the unavailability of IC's legal counsel. The change in Ministers and the current federal election are expected to add to these delays. IC's best guess for the timing for this is the first quarter of 2001.

No activities to report between Canada and EC since both parties have agreed to extend the confidence building period from June 1, 2000 to January 31, 2001 for all the sectors.

The APEC MRA task force met 3 weeks ago. The next meeting will be the week of 9 March 2000 in Canberra, Australia. Participating economies are creating an unofficial list of experts on their economies that accreditors can make use of if they have difficulty finding expertise on foreign requirements. At present 9 economies, including Canada are participating in Phase I of the APEC MRA.

The next meeting of TAPAC will take place on Feb. 15, 2001. Its task forces meetings will be held Feb. 14, 2000.

b. **TCB Council**

On September 29, 2000 the FCC issued a public notice stating that the FCC will no longer accept equipment authorization applications for class B computers and peripherals. These devices may be approved using either a declaration of conformity or certification by a Telecommunication Certification Body (TCB). See DA 00-2224.

The next meeting of the TCB Council is scheduled for November 29, 2000 in Washington, DC. Current items of interest to the group include:

1. RF Exposure Requirements and the limitations placed on TCBs. The FCC is currently working on procedures for testing and approving products subject to RF Exposure requirements. Until these procedures are released, TCBs are excluded from approving equipment subject to these requirements.

2. Cooperation between the TCB Council and the R&TTE CA. The R&TTE CA is an organization primarily consisting of European based companies, including European Conformity Assessment Bodies. The US-EU MRA is set to permit the designation of TCBs in Europe starting December 3, 2000.

3. Explore ways to facilitate communication between the FCC and TCBs to assure consistency in the program.

c. **T1E1**

Joint meeting after the TR41 Plenary with T1E1.

A liaison reply on adding balanced ringing to the Part 68 rules was received from T1E1 [TR-41/00-11-063]. The reply indicated that there was not consensus in T1E1 to add

PBX OPS balanced ringing to the Part 68 rules. This information has been made available to TR-41.1, which initiated the original correspondence.

5. Old Business

Use of the TIA website. The format was discussed and Roger Britt will help anyone with questions or that needs assisatance. It is open to other standards forums and the public.

6. New Business

Richard Frank indicated a need for titles and chair names of the T1E1 groups listed on the meeting schedule. Steve agreed this should be done.

7. Meeting Schedules

a. Next Meeting

The next meeting will be held the week of February 19-23, 2000 in Costa Mesa, CA. This meeting will be co-located with T1E1. 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:

> The Westin South Coast Plaza
> 686 Anton Blvd
> Costa Mesa, CA 92626
> Phone: 714-540-2500
> Fax: 714-662-6608
> Room Rate: $140.00
> Cut off date: January 18,2001

b. Future Meetings

The schedule for future TR-41 meetings is given below. All meetings through the end of 2001 will be co-located with T1E1. All meeting locations are tentative and subject to change.

May 7-11, 2001	**Orlando**
August 20-24, 2001	**Montreal/Toronto**
November 5-9, 2001	**San Antonio/Austin**
February 18-22 (11-15), 2002	
May 6-10 (13-17), 2002	
August 19-23 (12-16), 2002	
November 18-22 (11-15), 2002	

8. Adjournment

There being no further business, the meeting was adjourned at 9:30 am. This meeting was conducted in accordance with the TIA Legal Guides and the Engineering Manual.

Harry A. Van Zandt   Stephen R Whitesell
Secretary, TR-41   Chair, TR-41

Appendix A
Tentative TR-41 Meeting Schedule for Costa Mesa, CA

Monday AM	41.3.1 (Bleile – 25)	41.3.4 (Holland – 30)	41.7.3/E1.7 (McKinnon/Havens – 40)	
Monday PM	41.3.1 (Bleile – 25)	41.3.4 (Holland – 30)	41.9.1 (Havens – 30)	
Monday EV	41 Chairs (Whitesell – 20)			
Tuesday AM	41.3.2 (Bress – 25)	41.1.2 (Britt – 25) 41.3.3 (Magnuson – 25)	41.11 (Slingerland – 30)	
Tuesday PM	41.3.5 RF ad hoc (VanZandt – 25)		41.11 (Slingerland – 30) 41.2 (Adornato – 25)	
Tuesday EV	41.3.2 (Bress – 25)*			
Wednesday AM	41.3.5 (McKinnon – 30)	41.4 (Bell – 35)	41.9 (Wride – 50)	41.7.2/E1.5/E1.7 (Romlein/Vezeau/ Havens - 20)
Wednesday PM	41.3.5 (McKinnon – 30)	41.4 (Bell – 35)	41.9 (Wride – 50)	41.7.2/E1.5/E1.7 (Romlein/Vezeau/ Havens - 20)
Thursday AM	41.3.5 (McKinnon – 30)	41.1 (Tung – 25)	41.7.1 (Ivans – 20)	41.5 (Romlein – 15)
Thursday PM	41.3 (Bress –25)	41.1 (Tung – 25)	41.7.1 (Ivans – 20) 41.7 (Bipes – 20)	
Thursday EV	41/E1 All Chairs (Whitesell/Eckert – 30)			
Friday AM	41 (Whitesell – 30)			

*Only if needed

**Appendix B
Document List**

Number	Source	Description
TR-41/00-08-061	Secretary	Meeting Report for Vancouver
TR-41/00-11-062	Chair	Agenda for Savannah Meeting
TR-41/00-11-063	T1E1	Liaison Reply on Adding Balanced Ringing to Part 68 Rules
TR-41/00-11-064	TR-41.1	PN-4689 for Letter Ballot (to be TSB-116)
TR-41/00-11-065	TR-41.4	Request for PN to Revise TSB-122
TR-41/00-11-066	TR-41.4	Revised TSB-122 for Letter Ballot
TR-41/00-11-067	TR-41.5	PN-4657 Revision for Default Letter Ballot (to be TIA 854)
TR-41/00-11-068	TR-41.7	Liaison Letter to UL on Component Recognition Process
TR-41/00-11-069	TR-41.7	PN-4351 for Letter Ballot as Joint TIA/T1 Standard
TR-41/00-11-070	TR-41.3	SP-4159 for Complete Re-Ballot (to be TIA 855)
TR-41/00-11-071	TR-41.3	SP-4352-URV for Publication as TIA 810-A
TR-41/00-11-072	TR-41.3	Request PN to Revise and Upgrade IS-811 to ANSI Status
TR-41/00-11-073	TR-41.3	Submission of TIA 810-A as ITU-T Contribution
TR-41/00-11-074	TR-41.3	Request for PN to Revise TIA 504-A

Approved by General Counsel

TR-41 Meeting Report
Date: 11/17/00
Location: Savannah, GA

Approved: 1/11/01
T# 5462