



BUILDING GLOBAL COMMUNICATIONS

Approved by General Counsel

TR-41 Meeting Report

Date: 11/12/04

Location: San Antonio, TX

Approved: 12/01/04

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Telecommunications Industry Association
Standards and Technology Department

Engineering Committee TR-41
User Premises Telecommunications Requirements

Meeting Report

Chair: Stephen R. Whitesell
Vice-Chair: Roger W. Britt
Secretary: Harry A. Van Zandt

Date: November 12, 2004
Venue: St. Anthony Hotel
City: San Antonio, TX

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 15 of 18 voting member companies represented.

1) Quorum Members or Alternates Present

AST – James Bress	Siemens – Tailey Tung
Atlinks – Roger Hunt	Sprint – Amar Ray
AVAYA – Joanne McMillen	Tenovis – Joachim Pomy
Cisco – Bob Bell	UL – Randy Ivans
ECS – Harry Van Zandt	Uniden – Al Baum
Mitel – Greg Slingerland	VTech – Steve Whitesell
Nortel – Roger Britt	Wyle Labs – Jim Smith
Plantronics – Allen Woo	

2) Quorum Members Absent

Alcatel – François Pinier	Telcordia – Chrys Chrysanthou
Littelfuse/Teccor – Phillip Havens	

3) Others Present

Industry Canada – Efrain Guevara	Siemens – Dave VanderMeiden
Industry Canada – Matthew Mulvihill	TIA Staff – Stephanie Montgomery

c. Review and Approve Agenda (001-R1)

The agenda was submitted for review and approved with the addition of Liaison Reports for the former T1E1 and T1A1 subcommittees, the addition of TR-41 Operational Guidelines under Old Business, and the addition of discussion on the Status of TSB 110 under New Business. Document numbers related to the various agenda items were also identified.

d. 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:

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.

e. Chair's Remarks

Steve was asked to update a compendium of information on TIA activities related to Emergency Calling Services for input to an ETSI Emergency Telecommunications (EMTEL) meeting in September. The document was marked up with TR-41's inputs (TR41-04-11-004) and was provided via email (TR41-04-11-003) to David Thompson at TIA.

The work in TR-41.4 on Media Endpoint Discovery (MED) extensions to the IEEE 802.1ab Link Level Discovery Protocol (LLDP) has resulted in the need to obtain an IEEE Organizationally Unique Identifier (OUI) for TIA. After some discussion with TIA Staff, it was decided that the TR-41 Chair should be designated as the official TIA contact for IEEE Registration Services in this regard. The letter officially providing the OUI was received on October 29, 2004 and is available as Contribution TR41-04-11-010-L.

The TIA User Premises Equipment Division (UPED) has formed a Cordless Hearing Aid Compatibility (HAC) Working Group as a result of informal FCC complaints received by several member companies about digital cordless telephones causing interference with hearing aids. The Working Group has had several teleconference meetings, as well as face-to-face meetings with the FCC on October 8th and with Self Help for Hard of Hearing People (SHHH) and representatives of Gallaudet University's Technology Access Program on October 28th. Work on developing appropriate measures for characterizing the interference, with an expectation of then being able to develop voluntary standard for performance criteria, is being done in TR-41.3.

f. TIA Staff Remarks

Most of the staff will be out of the office until New Years.

2. Previous Meeting Report (002)

No changes or modifications were made and the document was approved.

3. Subcommittee Reports and Requests

TR-41's subcommittees and working groups met at various times from Monday through Thursday.

a. TR-41.1 – Multiline Terminal Systems – Tailey Tung (005-MR1)

Subcommittee TR-41.1 met on Thursday, November 11, 2004. It also met jointly with TR-41.3 on Wednesday, November 11, 2004 evening on analog telephone port requirements for packet-based terminal adapter project.

Project Status: The following is a summary of the status of each project assigned to TR-41.1.

- PN-3-0190, 1544 kbps Interface Requirements for Packet-based Gateways (ANSI/TIA-1062 when published)

Current Status: TR41.1 reviewed the first draft standard. Project on track as planned.

Target Completion Date: 5/2006.

- SP-3-0191, Analog Telephone Port Requirements for Packet-Based Terminal Adapters (ANSI/TIA-1063 when published)

Current Status: A joint TR41.1 and TR41.3 meeting held on November 10, 2004 from 8pm – 10pm to review the analog telephone port requirements for packet-based terminal adapters. It was agreed to set up a working group under TR41.1 to work on this project. TR41.1 meeting on November 11, 2004 reviewed the electrical interface requirements of the draft standard.

Target Completion Date: 5/2006.

Plenary Action Requested: TR41.1 voted and unanimously approved the Chair to request plenary agreement to set up a working group TR41.1.1 to develop analog telephone port requirements for packet-based terminal adapters.

Plenary Action Taken: Unanimously approved

Additional Information: TR-41.1 would like to provide the following additional information.

The TIA Secretariat has made a request to upgrade, withdraw or revise TSB with “shalls”. TR41.1 reviewed and searched for “musts” and “shalls” in TSB-32-A, TSB-116 and TSB-123 with the following findings and agreement.

- TSB32-A is a transmission planning guide jointly developed by TR41.1 and ETSI. The “musts” and “shalls” are in the context of citing requirements in the referenced standards and cannot be changed. TR41.1 unanimously agreed the planning guide is an informative document and should not be upgraded or categorized as a standard.

Plenary Action Requested: TR41.1 voted and unanimously approved the Chair to request plenary agreement to request TIA to continue keep TSB32 with “musts” and “shalls” without upgrading it to a TIA standard.

Plenary Action Taken: The vote was 9 approve, 6 abstain (Atlinks, Mitel, Sprint, Uniden, VTech, Wyle Labs). Chair Steve Whitesell noted that he did not believe this would be acceptable, but that he would forward the request to the Secretariat for consideration.

- TR41.1 voted and unanimously agreed to change the “musts” in TSB116 to “should” and republish as TSB116-A. The target completion date is 11/2005.

Plenary Action Requested: TR41.1 voted and unanimously approved the Chair to request plenary agreement to open a project to revise TSB-116.

Plenary Action Taken: Unanimously approved

- TSB123 is a test plan for interoperability testing. The “musts” and “shalls” in the document describe the conditions and procedures needed for the correct execution of the interoperability tests. They cannot be conditionally described with “shoulds”. TR41.1 unanimously agreed a test plan is an informative document and should not be upgraded or categorized as a standard.

Plenary Action Requested: TR41.1 voted and unanimously approved the Chair to request plenary agreement to request TIA to continue keep TSB123 with “musts” and “shalls” without upgrading it to a TIA standard.

Plenary Action Taken: The vote was 10 approve, 5 abstain (Atlinks, Mitel, Uniden, VTech, Wyle Labs). Chair Steve Whitesell also noted that he did not believe this would be acceptable, but that he would forward the request to the Secretariat for consideration.

b. TR-41.3 – Analog and Digital Wireline Terminals – James Bress (006-M)

Subcommittee TR-41.3 met on Thursday afternoon, November 11, 2004. Its various working groups met from Monday through Thursday morning. It also met jointly with TR41.1 on Wednesday evening to cover the analog terminal adapter work project.

Project Status: The following is a summary of the status of each Project assigned to TR-41.3.

- PN-3-nnnn, Comparison of TIA-470-C and ETSI TS 103 021 Requirements (to become a TSB)

Current Status: Discussion during TR41.3 meeting indicated to go forward with this project even though Berndt Martenson will not be attending the TIA meetings any longer. Berndt agreed to still work on the project remotely. Bress will get a project number for this and the TR41.3.8 WG will take this up after the next meeting when the Network Signaling document should be through final balloting.

Target Completion Date: 08/2005

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

Current Status: The TR41.3.10 working group (Al Baum, Uniden: Chair) met for a full day on Tuesday. Progress is continuing with many details regarding frequency response masks and placement of the CPE during directional acoustic testing discussed. There is much work to do in this standard and contributions are requested.

Target Completion Date: 02/2006

- PN-3-4350.130-RV3, Headset Acoustic Performance Requirements for Analog Telephones (to become TIA-470.130-C)

Current Status: The TR41.3.11 (Alan Woo, Plantronics: Chair) working group met for ½ day on Wednesday. Many technical issues are being worked. There is discussion of possibly changing the scope of the current standard from a system approach of a telephone + headset to possibly standardizing the headset alone and/or the headset jack of the telephone. The working group will move forward and discuss the scope at the next meeting.

Target Completion Date: 02/2006

- PN-3-4350.230-RV3, Network Signaling Performance Requirements for Analog Telephones (to become TIA-470.230-C)

Current Status: The TR41.3.8 (Don McKinnon, AST Technology Labs: Chair) working group met for a ½ day on Monday. The Committee ballot comments were discussed and resolved and after the last editing work is completed, the document will be sent for Industry Ballot within 2 weeks.

Target Completion Date: 02/2005

Plenary Action Requested: Request concurrence to send PN-3-4350.130-RV3 (to be TIA-470.130-C) for Industry Ballot.

Plenary Action Taken: Unanimously approved

- PN-3-4350.320-RV3, Cordless Telephone Performance Requirements (to become TIA-470.320)

Current Status: The TR41.3.9 working group (Harry Van Zandt, ECS Technologies: Chair) met on Thursday. There are many difficult technical issues to be worked regarding measurement of battery talk-time and stand-by time, and several other issues. Contributions are requested with a goal to have a document ready for Committee ballot after the Feb. 2005 meeting.

Target Completion Date: 11/2005

- PN-3-4352-RV2, Transmission Requirements for Narrowband Voice over IP and Voice over PCM Digital Wireline Telephones (to become TIA-810-B)

Current Status: The TR41.3.3 working group (Ken Macdonald, Microtronix: Chair) met for a ½ day on Monday. The goal to complete the TIA-810A revision quickly was expressed. Many technical issues were discussed including the need to coordinate efforts with TIA-920, and also IEEE-269. There was agreement to include TCLw, and to specify HATS in TIA-810B. A Webex meeting is scheduled for December, which was agreed to in the TR41.3 meeting. Goal is to have a ballot document ready by 11/2005.

A request was made to start a new project to standardize a USB headset “softphone”. Steve Graham from Plantronics has submitted a draft document contribution and has agreed to be the document editor.

There was significant discussion regarding the new softer pinna to be specified in P.57 and a request for a liaison letter to be sent from TR-41 to the ITU to request a new clause specifying the new pinna under 3.3.1 rather than in 3.3 in P.57.

Target Completion Date: 02/2006

Plenary Action Requested: Concurrence to start a new project for a USB based headset for use as a “soft-phone”.

Plenary Action Taken: Roger Britt, Nortel, made a proposal to amend the motion to add handsets and speakerphones to the project. The amendment was unanimously approved. The amended motion to establish a new project for USB based handsets, headsets, and speakerphones was then unanimously approved.

Plenary Action Requested: Concurrence to send a liaison letter (TR41-04-11-011-M) to ITU to request a new clause (3.3.1) for the newly proposed softer pinna.

Plenary Action Taken: Steve Whitesell requested to retain editorial rights to amend the letter prior to sending. Unanimously approved.

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

- TR41.3 voted to start a project for standardizing a Telephone Answering Device (TAD) a year ago. Due to scheduling constraints this effort was delayed. An ad-hoc working group will meet at the Feb. 2005 meetings to expand on the contribution presented by Amar Ray from Sprint. TR41 also gave concurrence for this project a year ago.
- There was significant discussion during the TR41.3 meeting regarding cordless telephones and Hearing Aid Compatibility (HAC). There are several groups working on research to understand the root cause of interference between cordless telephones and hearing aids. Linda Kozma-Spytek, from Gallaudet University in Washington DC, is doing research on the effect to hearing aids. Several TR41.3 members are investigating the actual interference signal to determine whether it is RF or magnetic related. The current goal is to verify if we can develop a testing method that reflects subjectively obtained results. The overall goal from TIA is to provide the FCC with assurance that TIA will provide the engineering information necessary (i.e., TIA standard) to resolve the HAC issue so that additional FCC regulations do not become necessary. The success of industry in solving a widespread customer complaint issue by TIA developing the TIA-631 RF immunity standard is being used as a model.
- Roger Britt, Nortel, has fulfilled a TR41.3 action item by preparing a document comparing the various standards from TR41 and the relationship to standards from other standards organizations. This comparison document is available on the TIA website under TR-41. Roger’s work and diligence in this effort deserve much appreciation.

c. TR-41.4 – IP Telephony Infrastructure and Interworking - Bob Bell (007-M)

Subcommittee TR-41.4 met on Tuesday and Wednesday, November 9 & 10, 2004

Project Status: The following is a summary of the status of each Project assigned to TR-41.4.

- PN-3-0061, IP Telephony Security Framework (to become new TSB)
Current Status: No Work was done on this item this time. This was partially due to the security work required for PN-3-4462-URV. Significant progress is expected on this project by February.
Target Completion Date: 11/2005
- PN-3-0102, Requirements for a Wireless LAN Based IP Telephony Subsystem (to become TIA-1002)
Current Status: No work items were submitted. The editor was unable to attend.
Target Completion Date: 05/2005
- PN-3-0103, Requirements for a Wireless LAN Based IP Telephony Endpoint (to become TIA-1003)
Current Status: No work items were submitted. The editor was unable to attend.
Target Completion Date: 05/2005
- PN-3-0104, Functionality Classes for IP Telephony Residential Gateways (to become TSB-148)
Current Status: No Work items submitted. This work item will be closed next meeting unless the editor comes to the meetings.
Target Completion Date: 05/2005
- PN-3-0105, IP Telephony Endpoint Performance Metrics (to become TIA-1004)
Current Status: No Work items submitted. This work item will be closed next meeting unless the editor comes to the meetings.
Target Completion Date: 05/2005
- PN-3-0172, Enterprise Location Information Server Interfaces (to become TIA-1049)
Current Status: The editor presented requests for information concerning the specific interfaces that we need to define. There was work submitted.
Target Completion Date: 11/2005
- PN-3-0185, Link Level Discovery Protocol (LLDP) – Media Endpoint Discovery (MED)
Current Status: Several items were presented and it is progressing.
Target Completion Date: 11/2005
- PN-3-xxxx, Technical Assessment of Synchronization Methods in IP Networks from a Quality of Experience Perspective
Current Status: The editor presented the next generation draft.
Target Completion Date: 2/2006
- PN-3-4462-URV, Performance and Interoperability Requirements for Voice-over-IP (VoIP) Telephone Terminals (to become TIA-811-A)
Current Status: We tried to make this ready for Ballot. However, there were a number of issues developed as a result of several submissions. We are planning to bring it forward next time.

Target Completion Date: 5/2005

- PN-3-4726-RV1, Location Identification and Callback Procedures for IP Terminals (to become TSB-146-A)

Current Status: The editor was not present and no progress was made.

Target Completion Date: 5/2005

- PN-3-4826-RV1, Voice Gateway Transmission Requirements

Current Status: Published as TIA-912-A following August 2004 meeting.

Target Completion Date: Complete and can be removed from the project list at the next meeting.

Additional Information: TR-41.4 would like to provide the following additional information.

- TR-41.4 needs to resolve security issues for 811-A before the document can be submitted for ballot.

Plenary Action Requested: Bob Bell, Cisco, moved to request an interim meeting via conference call in early January to resolve the security issues in 811-A .

Plenary Action Taken: Unanimously approved.

d. TR-41.7 – Environmental and Safety Considerations - Randy Ivans (008-M)

Subcommittee TR-41.7 met on Thursday afternoon, November 11, 2003. Its 41.7.4 and 41.7.5 Working Groups met on Wednesday, and its 41.7.1 Working Group met on Thursday morning.

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

- PN-3-3283-RV2, Environmental Considerations (to become TIA-571-B)

Current Status: WG met Wednesday morning for a half day. Requirements for operating and storage temperature, humidity and thermal shock were completed. The “environmental” portion of the requirements is just about completed and work is starting on the electrical characteristics such as surge, ESD, etc. The WG will be asking for an extension of the target completion date, TBD.

Target Completion Date: Currently 5/2005

- PN-3-0129, Telecom Circuit Overcurrent Protectors (to be submitted to UL)

Current Status: Currently still on target. However, the missing of a few key members this meeting is cause for some concern regarding the timetable. The WG plans to take a hard look at the progress made this meeting and next meeting after the February meeting and determine if an extension would be warranted.

The technical content is now under full development and review. UL 497A (Secondary Protectors) and the planned UL 2444 (CO and Network Equipment Safety) are being added to the list of end product standards that this document needs to coordinate with.

The WG can use some help with a technical issue. If a remote power feed circuit (up to almost 400Vdc, basically +/- 190vdc) is faced with a power cross (overvoltage) condition, the resulting voltage that a fuse needs to clear includes both the ac fault voltage and the remote feed voltage. It is not clear how the 400Vdc might affect the safe clearing of the fuse since the arc extinguishing mechanism (0 Volt crossing of the ac waveform) may now be compromised. The WG is looking for:

1. Any information regarding fuse operation with combined ac/dc power source.
2. Any suggestions would be appreciated as to how to run a test on a fuse using a 400V, 300 mA dc source with a 600Vac, 40A fault voltage imposed.

Target Completion Date: 08/2005

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

- There have been recent news reports focusing on a few cell phone battery recalls involving batteries heating up, burning or rupturing (exploding?). TR41.7 had some discussions regarding this and will monitor any developments. Some points were discussed regarding aftermarket (uncontrolled, untested, etc.) batteries sold cheap at the malls, why the problems appear to be turning up in cell phones while devices like video cameras, etc. use similar battery technologies and have not had the same problems reported, possible role "abuse" might play, etc. We are going to continue to watch this and do some research on what other STOs might be involved in developing appropriate requirements, such as UL, CSA, TC108, etc.

e. TR-41.9 – Terminal Attachment Programs – Greg Slingerland (009-M)

Subcommittee TR-41.9 met on Tuesday afternoon, November 9, 2004. Its 41.9.2 Working Group met on Monday afternoon and Tuesday morning.

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

- SP-3-0016-AD3, Technical Criteria for Terminal Equipment to Prevent Harm to the Telephone Network (Third Addendum to TIA-968-A)

Current Status: Reballot of modified document has closed on 25-Oct-2004. There were no negative votes. The document was submitted to TIA for publication on 26-Oct-2004. It will be published and forwarded to ACTA for adoption after the ANSI ballot window has closed on 19-Nov-2004.

Target Completion Date: 11/2004

- PN-3-3602-RV3, Rationale and Measurement Guidelines for TIA-968 (to become TSB-31-C)

Current Status: We expect that after the next meeting all technical changes will be complete. Then a global review and edit will begin. We also need to make some changes due to the adoption of TIA-968-A-3 that is expected soon.

Target Completion Date: 11/2005

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

Current Status: We have not received any questions at this meeting, but we are in the process of reviewing and updating all the answers to the previous questions that we have addressed. We expect to produce this as a committee document and vote it to committee ballot at the next meeting.

Target Completion Date: N/A

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

- TR41.9 was made aware of the planned action by Industry Canada to cease its label service at the end of this year. TR41.9 agreed to write a letter to TAPAC indicating its opposition to this action and request that they follow the plan they agreed to in Oct 2002 to stop this service 3 months after the new fee schedule is available. That fee schedule is not yet available. TR41.9 has drafted the letter and will be sending it to Industry Canada.

Plenary Action Requested: TR41.9 wishes to seek TR41's concurrence on sending a liaison letter to Industry Canada on this issue.

Plenary Action Taken: Unanimously approved

- TR41.9 has prepared a committee document titled "Summary of Important Dates for ACTA Adopted Labelling and Technical Criteria". It summarizes all the critical dates for all of the criteria documents adopted by the ACTA since it has existed. It is intended to aid responsible parties in selecting the documents they wish to use to approve their product.

Once ACTA adopts TIA-968-A-3 we have agreed to forward this document to the ACTA and ask that they post it on their web site on the same page as the adopted criteria documents.

Plenary Action Requested: TR41.9 wishes to seek TR41's concurrence on sending this committee document to the ACTA once it adopts TIA-968-A-3.

Plenary Action Taken: Unanimously approved

4. Liaison Reports

a. IEEE 802.11/15/19

Steve Whitesell reported that IEEE 802 be meeting in San Antonio the week of 11/15-19/04.

b. T1E1

Steve Whitesell indicated the new name for the former T1E1 subcommittee is the ATIS Network Interface Power and Protection (NIPP) Committee.

c. T1A1

Steve Whitesell indicated the new name for the former T1A1 subcommittee is the ATIS Network Performance Reliability and Quality of Service (PRQS) Committee. They will be collocating with us for the February 2005 meeting in Las Vegas.

5. Old business

TR41 Operational Guidelines were made available to the chairs but did not get on the agenda for this meeting. Steve made a motion that was seconded and approved to send the document out for committee ballot.

6. New Business

The status of TSB 110 for Residential Gateways was discussed. This is another TSB document that the TIA Secretariat has asked to be reviewed for the use of "shalls" and "musts". It does contain "shalls". Since it did not get put on the agenda for this meeting, no decision could be taken about what to do with it. Steve noted that sales for the document had been very light in the beginning and had dwindled even further. No copies have been sold this year. He proposed a motion to put out an administrative ballot to authorize doing a committee ballot for withdrawal. This administrative ballot takes the place of voting to send the document out for ballot in the meeting. If the administrative ballot passes, the ballot to withdraw the document will then be circulated. The motion was seconded and approved.

7. Meeting Schedules

a. Next Meeting

The next meeting will be held the week of February 7-11, 2005 in Las Vegas, NV. 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:

Embassy Suites Hotel
4315 Swenson Street
Las Vegas, NV 89119
Ph: 702-795-2800
Fax: 702-795-1520
Rate: \$129.00
Cut-off: January 7, 2005
<http://embassysuites.hilton.com>

Note: Although the TIA room rate is guaranteed until the cut-off date, room availability is not.

b. Future Meetings

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

Date	Location	Notes
May 9-13, 2005	Portland, OR	Embassy Suites
August 8-12, 2005	Halifax,	Lord Nelson
November 7-11, 2005	Santa Fe, NM	Hotel Santa Fe

8. Adjournment

There being no further business, the meeting was adjourned at 10:00am. This meeting was conducted in accordance with the TIA Legal Guides and the Engineering Manual.

Harry A. Van Zandt
Secretary, TR-41

Stephen R Whitesell
Chair, TR-41

Appendix A
Proposed Meeting Schedule for February 2005 in Las Vegas, NV

MONDAY 0830 – 1230 7 Feb 2005	TR-41.3.3 Digital Xmission Perf (Macdonald – 20)			
MONDAY 1330 – 1730 7 Feb 2005	TR-41.3.3 Digital Xmission Perf (Macdonald – 20)		TR-41.9.2 Part 68 Measurements (Slingerland – 20)	
MONDAY 1800 – 1930 7 Feb 2005	TR-41 Leadership User Premises Eqpmt (Whitesell – 20)			
TUESDAY 0830 – 1230 8 Feb 2005	TR-41.3.11 Headset Telephones (Woo – 20)	TR-41.4 VoIP Systems (Bell – 20)	TR-41.9.2 Part 68 Measurements (Slingerland – 20)	
TUESDAY 1330 – 1730 8 Feb 2005	TR-41.3.9 Cordless (Van Zandt – 20)	TR-41.4 VoIP Systems (Bell – 20)	TR-41.9 Regulatory (Slingerland – 20)	
TUESDAY 1930 – 2200 8 Feb 2005	TR-41.3 Ad Hoc TAD (Bress – 20)			
WEDNESDAY 0830 – 1230 9 Feb 2005	TR-41.3.8/41.3.10 Network Signaling (McKinnon – 20)	TR-41.4 VoIP Systems (Bell – 20)	TR-41.7.5 Overcurrent Protection (Lindquist – 20)	
WEDNESDAY 1330 – 1730 9 Feb 2005	TR-41.3.10 Hands Free Telephones (Baum – 20)	TR-41.4/ATIS PRQS Joint Meeting (Bell/???? – 25)	TR-41.7.5 Overcurrent Protection (Lindquist – 20)	
WEDNESDAY 1930 – 2200 9 Feb 2005	TR-41.7.4 Environmental (McKinnon – 20)			
THURSDAY 0830 – 1230 10 Feb 2005		TR-41.1.1 Analog Port TA (Tung – 20)	TR-41.7.1 Int'l Safety Standards (Ivans – 20)	
THURSDAY 1330 – 1730 10 Feb 2005	TR-41.3 Wireline Terminals (Bress – 20)	TR-41.1 MLTS & VoIP Eqpmt (Tung – 20)	TR-41.7 Environmental & Safety (Ivans – 20)	
THURSDAY 1930 – 2200 10 Feb 2005				
FRIDAY 0800 – 1030 11 Feb 2005	TR-41 Plenary User Premises Eqpmt (Whitesell – 20)			

**Appendix B
Document List**

<u>Number</u>	<u>Source</u>	<u>Description</u>
TR41-04-11-000		TR-41 Document List for 2004
TR41-04-11-001	Chair	Agenda for November 12, 2004 Meeting in San Antonio
TR41-04-11-002	Secretary	Report for August 13, 2004 Meeting in Washington
TR41-04-11-003	Chair	Email Transmitting Updated Compendium of TIA ECS Work
TR41-04-11-004	Chair	Updated Compendium Of TIA Emergency Calling Services Work
TR41-04-11-005-M	41.1 Chair	San Antonio TR-41.1 Chair's Report
TR41-04-11-006-M	41.3 Chair	San Antonio TR-41.3 Chair's Report
TR41-04-11-007-M	41.4 Chair	San Antonio TR-41.4 Chair's Report
TR41-04-11-008-M	41.7 Chair	San Antonio TR-41.7 Chair's Report
TR41-04-11-009-M	41.9 Chair	San Antonio TR-41.9 Chair's Report
TR41-04-11-010-L	IEEE	IEEE Organizationally Unique Identifier (OUI) for TIA
TR41-04-11-011-M	41.3.3 WG	Draft Liaison Letter to ITU-T SG 12 Proposing Type 3.3.1 Pinna