Telecommunications Industry Association
Standards and Technology Department

Engineering Committee TR-41
User Premises Telecommunications Requirements

Meeting Report

Chair: Stephen R. Whitesell	Date: February, 22, 2002
Vice-Chair: Roger W. Britt	Venue: Westin Bayshore
Secretary: Harry A. Van Zandt	City: Vancouver, B.C. Canada

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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 13 of 15 voting member companies represented.

1) Quorum Members or Alternates Present

Alcatel – François Pinier	Nortel – Roger Britt
AST – James Bress	Siemens – Tailey Tung
Atlinks – Clint Pinkham	Sprint – Cliff Chamney
AVAYA – Joanne McMillen	Telcordia – Benson Wang
Cisco – Bob Bell	VTech – Steve Whitesell
ECS – Harry Van Zandt	Wyle Labs – Jim Smith
Mitel – Greg Slingerland	

2) Quorum Members Absent

Lucent – Tony Caggiano	TIS – Steven Bipes

3) Others Present

ETSI STQ Liaison – Joachim Pomy	Radio Shack – Richard Carey
Industry Canada – Henry Mar	SBC – Jimmy Salinas
Inst for Telecom Sci – Robert Stafford	SBC – Chuck Bailey
Mitel – Richard Hatherill	Teccor – Phillip Havens
National Comm Sys – Gregory Bain	Uniden – Al Baum
Poly Com – Peter Baker	

After the quorum was established, it was noted that Polycom and Uniden had met the requirement to achieve voting status by attending two consecutive meetings. They will also be included in the quorum count for future meetings. Phillip Havens of Teccor arrived late because of his commitment in T1E1. Teccor also has been represented at two consecutive meetings and has achieved voting and quorum status if they choose to have it.

c. Review and Approve Agenda

The agenda was reviewed and changed to move TR-41.4 to the beginning of the Chair's Report list and to delete TR-41.10 (didn't meet). The modified agenda was then 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**

We have decided to try a new procedure concerning the numbering and posting of documents brought before the TR-41 Plenary. Only those documents that originate in TR-41 or that require a TR-41 approval, such as liaison reports from multiple subcommittees that will go out over the TR-41 Chair's signature, will receive a TR-41 number. Subcommittee documents that are presented for TR-41 Plenary concurrence will not be given a TR-41 number. Instead, they will be referred to in the TR-41 meeting report by their subcommittee number.

We are also taking the position that all numbered documents shall be posted on the TIA web site for interested parties to be able to review. Documents submitted for ballot or publication shall be posted in the "Working" folder for the appropriate group. This folder is intended for committee members only and requires password access. All other numbered documents, as well as pointers to any documents in the "Working" folder shall be posted in the appropriate "Public" folder. To this end, each subcommittee and working group chair has been asked to identify an Electronic Data Coordinator (EDC) who will be responsible for seeing that all documents are posted to the web site in a timely manner. Any EDC who needs further information about file naming formats, folder structures, etc. to be used should contact Vice-Chair Roger Britt.

f. **TIA Staff Remarks**

Stephanie Montgomery stated that as of Monday February 25, 2002, a new TIA website would be available.

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-41.1 – Multiline Terminal Systems – Tailey Tung**

Subcommittee TR-41.1 met on Thursday, February 21, 2002.

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

- PN-3-3673, Requirements for Private Branch Exchange (PBX) Switching Equipment (Revision of TIA/EIA-464-B)

  Current Status: TR41.1 unanimously approved the final draft of the 464C standard for Plenary concurrence to ballot before the 5/2002 meeting.

  Target Completion Date: 8/2002.

- PN-3-3836-RV1, PBX and KTS Support of Enhanced 911 Emergency Service Calling (Revision of TIA/EIA-689)

  Current Status: A working group was given the assignment to complete the first draft standard for review in the 5/2002 meeting.

  Target Completion Date: 11/2002.

- PN-3-4676, Information Technology - Telecommunications and Information Exchange and Technical Requirements for Private Integrated Services Networks (Adopt IEC/ISO 11573)

  Current Status: TIA is in the process of converting ISO 11573 to TIA-594-A standard for printing.

  Target Completion Date: [5/2002.]

Information: TR-41.1 would like to provide the Plenary with the following information.

Tailey Tung will be the EDC for TR41.1

Action Items #1: TR-41.1 has the following action items for Plenary concurrence or approval.

- TR41.1 requests Plenary concurrence to send the Ballot Authorization Form and the Word format version of the draft 464C standard to TIA in early 3/2002 for letter ballot.

  Doc#: TR41.1/02-02-003

  Plenary Action: Unanimously approved.

b. **TR-41.3 – Analog and Digital Wireline Terminals – James Bress**

Subcommittee TR-41.3 met on Thursday afternoon, February 21, 2002. Its 41.3.1, 41.3.3, and 41.3.5 working groups and the 41.3.5 RF ad hoc group met on Monday through Thursday.

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

- PN-3-4078-RV1, Caller Identity and Visual Message Waiting Indicator Equipment Performance Requirements (Revision of TIA/EIA-777)

  Current Status: Standard should be ready for committee ballot by 3-11-2002.

  Target Completion Date: 08-2002

- PN-3-4350.110-RV3, Performance and Compatibility Requirements for Telephone Sets with Loop Signaling: Electroacoustics (Revision of TIA/EIA-470-B)

  Current Status: Standard should be ready for committee ballot after the 05-2002 meetings.

  Target Completion Date: 02-2003

- PN-3-4350.210-RV3, Performance and Compatibility Requirements for Telephone Sets with Loop Signaling: Resistance and Impedance (Revision of TIA/EIA-470-B)

  Current Status: Standard should be ready for committee ballot after the 05-2002 meetings.

  Target Completion Date: 02-2003

- PN-3-4350.230-RV3, Performance and Compatibility Requirements for Telephone Sets with Loop Signaling: Alerting (Revision of TIA/EIA-470-B)

  Current Status: Standard should be ready for committee ballot after the 08-2002 meetings.

  Target Completion Date: 02-2003

- PN-3-4350.310-RV3, Performance and Compatibility Requirements for Telephone Sets with Loop Signaling: Cordless Telephone Range Measurement Procedure (Revision of TIA/EIA-470-B)

  Current Status: Standard should be ready for committee ballot after the 05-2002 meeting.

  Target Completion Date: 11-2002

- PN-3-4705, Transmission Requirements for Wideband Digital Wireline Telephones (To become new TIA/EIA Standard)

  Current Status: Standard should be ready for committee ballot after the 08-2002 meetings.

  Target Completion Date: 02-2003

Information: TR-41.3 would like to provide the Plenary with the following information.

The PN-3-4350.xxx projects have been set-up to provide separate project numbers for the TIA-470-C sub-documents. These sub-documents will eventually replace TIA-470-B and will also add new technical standards with future sub-documents and sub-documents currently under development. New working group numbers will be set-up for each project, related to each sub-document, to allow for easier scheduling of project meetings and division of responsibilities where necessary.

TR41.3 is investigating a method for release of TIA-470-C.XXX while keeping TIA-470-B in place until all sections necessary to replace TIA-470-B are published.

The TR41.3 Electronic Document Coordinator (EDC) will be Ken Macdonald (Microtronix). He will also serve as EDC for the TR-41.3 Working Groups.

Action Items: TR-41.3 has the following action items for Plenary concurrence or approval.

- TR41.3 requests concurrence to submit for committee ballot: PN-3-4078-RV1, *Caller Identity and Visual Message Waiting Indicator Equipment Performance Requirements* (Revision of TIA/EIA-777). Doc.#: TR41.3/02-05-009

  Plenary Action: Unanimously approved.

- TR41.3 requests a new project number for PN-4350.000 *Specifications Overview and Document Structure* (table of sub-documents and documents structure)

  Plenary Action: Unanimously approved.

- TR41.3 requests concurrence to submit for committee ballot: PN-4350.000 *Specifications* Overview *and Document Structure*. Doc.#: TR41.3/02-05-010

  Plenary Action: Unanimously approved.

- TR41.3 requests concurrence to withdraw TIA-504A in favor of TIA-504. This was voted on and agreed at the 11-2001 (Greensboro) TR41.3 meeting.

  Plenary Action: Approved with two abstentions, VTech (Steve Whitesell) and Alcatel (Francois Pinier)

c. **TR-41.4 – IP Telephony Infrastructure and Interworking – Bob Bell**

Subcommittee TR-41.4 met on Wednesday, February 20, 2002. Its 41.4.4 Working Group met on Tuesday afternoon.

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

- PN-3-4462-URV, Performance and Interoperability Requirements for Voice-over-IP (VoIP) Telephone Terminals (Revision and Upgrade of TIA/EIA-IS-811)

  Current Status: The update of the document has begun. Edits were considered and approved in the meeting. Several contributions were considered and discussed.

  Target Completion Date: March 2003

- PN-3-4601, IP Telephony Gateways and Related Control Infrastructure

  Current Status: We are collecting a glossary to be used to standardize the terms within the group.

  Target Completion Date: Living Document

- PN-3-4726, Location Identification and Callback Procedures for IP Terminals

  Current Status: Two additional contributions where added to the Draft and the group has voted to submit the draft for industry ballot.

  Target Completion Date: August 2002

- PN-3-4826, IP Telephony Voice Router/Gateway Loss and Level Plan Requirements (To become new TIA/EIA Standard)

  Current Status: Letter Ballot has been completed. There was one no vote and one yes with comments. Both have been resolved as of 20Feb, 2002. The required changes have been made and the group has voted to request the publication of the document as TIA/EIA-912.

  Target Completion Date: Done

- PN-3-4917, International Emergency Performance Scheme Framework (To become new TSB)

  Current Status: Withdrawn

  Target Completion Date: Done

- PN-3-0061, IP Telephony Security Framework (To become new TSB)

  Current Status: Collecting information and contributions. In conversation after the meeting, it has become evident that there is a need for a security protocol suite that is tailored for devices having limited resources. The development of such a protocol suite standard properly resides in the IETF. Their next meeting is scheduled to begin on 17 March 2002. In order to begin this process in as timely a fashion as possible, we felt that we needed to hold an special meeting to get concurrence of the subcommittee as a whole and then submit a liaison request to the Security Sector of the IETF requesting that they embark on this effort. The meeting was held on Thursday night at 7:00 PM and a quorum of the membership being present, it was resolved to send the liaison letter to the IEFT Security Area Directors.

  Target Completion Date: May 2003

Information: TR-41.4 would like to provide the Plenary with the following information.

  Bob Bell was elected as Chairman of TR41.4 and Richard Hatherill was elected as Vice-Chairman. Richard Hatherill will serve as the TR41.4 EDC and Peter Baker as the EDC for TR41.4.4

Action Items: TR-41.4 has the following action items for Plenary concurrence or approval.

- TR-41.4 requests the concurrence of TR-41 in moving PN-3-4826 to publishing. Doc #: TR41.4/02-02-016

  Plenary Action: Unanimously approved.

- TR-41.4 requests the concurrence of TR41 in allowing PN-3-4726 to be sent out for letter ballot. Doc#: TR41.4/02-02-017

  Plenary Action: Approved with one abstention, Alcatel (Francois Pinier)

- TR-41.4 requests the concurrence of TR-41 to establish a liaison relationship with the SIP Forum to further the work of TR-41.4.4 and the SIP Forum. Doc#: TR41.4/02-02-015

  Plenary Action: Unanimously approved.

- TR-41.4 requests the concurrence of TR-41 to establish a liaison with the IETF Security Area through a liaison letter relative to the creation of a security protocol suite standard for restricted resource devices. Doc#: TR41.4/02-02-018

  Plenary Action: Unanimously approved.

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

Subcommittee TR-41.7 met on Thursday afternoon, February 21, 2002. Its TR-41.7.3 Working Group met jointly with T1E1.7 on Monday morning. The TR-41.7.1 Working Group met on Thursday morning and part of Thursday afternoon preceding the TR-41.7 meeting.

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

- PN-3-3210-RV1, Radio Frequency Immunity Requirements for Equipment Having an Acoustic Output (Revision of TIA/EIA-631)

  Current Status: There were some technical changes made at the meeting to the current Draft 4 of the document. By the next meeting in May draft 5 should be finalized and it is expected that a request for committee ballot will be made. We expect that the document will go out for industry ballot after the August meeting and that the document will be published by the end of the year.

  Target Completion Date: December 31, 2002

- PN-3-4351, Commercial Building Grounding and Bonding Requirements for Telecommunications (Revision of EIA/TIA-607 to become joint T1 and TIA/EIA-J-STD-037)

  Current Status: After some delays in getting the final edited document, which was approved in a teleconference meeting of TR41.7 on September 10th, 2001, the document submitted for publishing to the TIA Website 2/21/02

  Target Completion Date: 2/21/02.

Information: TR-41.7 would like to provide the Plenary with the following information.

At the next meeting, TR41.7 expects to begin a preliminary review of TIA-571 Environmental Conditions for Terminal Equipment. Although the next review date is 2+ years away, some items have been identified that warrant beginning work on the document early so that by the time the review period arrives we will be well along in the document review process.

Action Items: TR-41.7 has the following action items for Plenary concurrence or approval.

- TR41.7 is requesting concurrence on the following item. During our review of the Overvoltage criteria in UL/CSA 60950 an inconsistency in the pass/fail criteria was identified between the construction method of compliance (i.e. no testing) and the testing path. While the construction path identifies areas critical to reducing the risk of fire in equipment due to overvoltage conditions, the testing path includes criteria for electrical safety after the completion of the tests. Although we do not disagree that electrical safety is important to consider, the emphasis on this particular test has migrated toward risk of fire issues. We

believe that the current criterion places an unfair burden on manufacturers selecting the testing path by forcing them to meet additional criteria. To resolve this inconsistency the TR41.7 committee has agreed to recommend to the UL STP and CSA subcommittee that the electrical safety criteria be removed from the draft of the standard currently out for comment and review. There were several concerns expressed in the committee but given the fact that the construction path is an accepted method of determining compliance with the overvoltage requirements and that electrical safety is not addressed in this accepted method, the consensus was that at this time it is important to provide manufacturers with a consistent pass/fail criteria. If electrical safety is deemed to be a critical issue in the future, the committee recommends that it would need to be addressed equally in both the construction path and the testing path as a separate work item but that the implementation of a consistent approach should not be delayed while this work is in process.

Plenary Action: The Plenary vote was 2 for, 5 opposed and 6 abstentions. A motion by VTech was made and seconded by ATLINKS to concur with the request with added comments. This vote was 3 for, 4 opposed and 5 abstentions. A further motion was made by AST and seconded by ECS to either remove it from both or add it to both. In this vote, 7 approved, 2 opposed and 4 abstained. This vote carried. Subsequent to the Plenary meeting a letter was sent from Steve Whitesell to Randy Ivans indicating the desire of the TR41 Plenary members.

e. **TR-41.9 – Terminal Attachment Programs - Phillip Havens**

Subcommittee TR-41.9 met on Wednesday, February 20, 2002. It also met jointly with T1E1.4 on Thursday Morning. The TR-41.9.1 Working Group met on Monday afternoon.

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

- PN-3-0016-URV, Technical Criteria for Terminal Equipment to Prevent Harm to the Telephone Network (Revision and Upgrade to ANS status for TIA/EIA/IS-968)

    Current Status: need to get this project officially opened

    Target Completion Date: August 2002 or November 2002

- PN-3-3726, Update of Harmonized Rules (CS-03/Part 68): Harmonization Phase II

    Current Status: completed, this project number should be closed

- PN-3-4124, Responses to Part 68 Questions from the FCC

    Current Status: Continuing work

    Target Completion Date: On-going

Information: TR-41.9 would like to provide the Plenary with the following information.

    A letter ballot request is expected after the May 2002 meeting (for revised IS-968 document)

Action Items: TR-41.9 has the following action items for Plenary concurrence or approval.

- Plenary Action: None

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

No report available. Subcommittee TR-41.10 did not meet.

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

Subcommittee TR-41.11 met on Tuesday, February 19, 2002. Its TSB-129-A Task Group 2 met on Monday morning.

Project Status: The following is a summary of the status of each Project assigned to TR-41.11.

- PN-3-0017-RV1, Guide to the U.S. Supplier's Declaration of Conformity and TCB Approval Processes (To be published as TSB-129-A)

Current Status: Voted to Ballot on 19-Feb-2002

Target Completion Date: 31-Apr-2002

Information: TR-41.11 would like to provide the Plenary with the following information.

TR41.11 would like to inform TR41 that the Electronic Document Coordinator (EDC) for TR41.11 is Greg Slingerland, Mitel Networks.

TR41.11 would like to request a full day meeting on Tuesday in Arlington for the TR41.11 meeting.

Action Items: TR-41.11 has the following action items for Plenary concurrence or approval.

- TR41.11 is sending a letter to ACTA (TR41.11-02-05-013) to request a change to their Guidelines and Procedures to simply the options for filing status. TR41.11 seeks TR41's concurrence in this action. Doc.#: TR41.11/02-05-017

  Plenary Action: Unanimously Approved.

- TR41.11 voted to send the PN-3-0017-RV1 out for ballot. The final version is dependent upon the response from the ACTA on the letter above. TR41.11 has agreed to send the document to ballot with or without the modification from the ACTA (i.e. either version is acceptable for ballot). TR41.11 seeks TR41's concurrence in this action.   Doc.#: TR41.11/02-05-018

  Plenary Action: Unanimously approved.

- If the ballot of PN-3-0017-RV1 is affirmative or can be resolved as affirmative (through an editing committee) TR41.11 will send the document to TIA for publication as TIA/EIA/TSB129-A. TR41.11 seeks TR41's concurrence in this action.

  Plenary Action: Unanimously approved.

- If the publication of TIA/EIA/TSB129-A occurs before the next meeting in May in Arlington, TR41.11 will ask TIA to forward the document to the ACTA for adoption. TR41.11 seeks TR41's concurrence in this action.

  Plenary Action: Unanimously approved.

4. Liaison Reports

a. TAPAC – Henry Mar

TAPAC and its Task Forces last met February 13-14, 2002 in Ottawa, Ontario.

Industry Canada has published Telecommunications Apparatus Regulations (SOR/2001–532) and the amended Radiocommunication Regulations (SOR/2001–533) in the Canada Gazette, Part II, on December 19, 2001. Pursuing to this, Industry Canada has published *Notice No. SMSE-001-02 - Changes in Conformity Assessment Procedures for Telecommunications and Radio Apparatus* in the Canada Gazette, Part I, on January 19, 2002. These Canada Gazette Notices are available at the following Internet address: http://strategis.ic.gc.ca/SSG/sf05319e.html

With these regulatory changes in place, the implementation of Phase II of the MRAs and the adoption of Declaration/Registration of Conformity for Terminal Equipment becomes effective in January 2002. As for radio equipment, Industry Canada allows recognized foreign bodies and Canadian private entities to certify the products.

Starting January 24, 2002, self-marking of certified/registered equipment is permitted. However, the manufacturers need to sign an agreement with Industry Canada so that the per unit fee with be paid to the Receiver General of Canada. Currently we are working on the restructuring of the fee order. Hopefully, by the year-end the per unit charge will be replaced by one-shot per model charge.

The detail procedural matters are documented in the eight documents listed in the *Canada Gazette Notice No. SMSE-001-02.* And those documents are available at the following Internet address:

http://strategis.ic.gc.ca/SSG/sf01347e.html#Procedures

Industry Canada is planning an info session across Canada Feb. 26- Mar. 21, 2002 and a workshop in Brussels Mar. 11, 2002. The info session, which is open to all interested parties, will take place as follows:

> Feb. 26 Vancouver
> Feb. 29 Calgary
> Mar. 4   Ottawa
> Mar. 7   Toronto
> Mar. 19 Halifax
> Mar. 21 Montreal (French)

An amendment 5 to CS-03 will be published beginning of March. This amendment consists of the change of the title, the listing of all the relevant procedural references, editorial changes to reflect the adoption of DOC to replace certification, revised Section 5, Part I (Terminal Equipment Installation Wiring), Section 6, Part V (Telephone Receive Volume Control) and Part VIII (Requirements and Test Methods for XDSL Terminal Equipment).

The next meeting of TAPAC and its Task Forces will be June 13-14, 2002 in Toronto.

b. **TCB Council – Greg Slingerland**

No report

c. **T1E1 – Steve Whitesell**

No report

d. **ACTA – Jim Salinas**

Educational Seminar:

ACTA will be holding an industry educational seminar on May 1-3, 2002 at the Hyatt Regency Crystal City in Arlington, VA. Additional details such as program content and expected speakers will be posted on the ACTA website and distributed to the industry in the very near future. The date and location are firm.

ACTA Update:

Effective January 1, 2002, ACTA adjusted its filing fees to $300.00 per submission. The Council also agreed to apply an additional $300.00 fee for posting a Responsible Party's SDoC.

On January, 20, 2002, ACTA issued a notice that it adopted, as part of its technical criteria, the specification entitled "Technical Requirements Document, SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment to Prevent Harm to the Telephone Network, T1.TRQ.6-2001." The newly adopted specification is available on the ACTA website.

The council is currently deliberating two contributions from the TIA TR41.11 committee.

- Substituting database item US Service Center with Agent for Service.

- Inclusion of User's Instructions in ACTA's requirements for approval.

Both items are scheduled for the discussion during the nest virtual meeting scheduled for February 29, 2002.

Council Structure & Members:

The Council is pleased to announce the election of Mr. James Haynes, VP Engineering and Regulatory Affairs, Uniden Corp. Mr. Haynes will represent the industry's NEM segment.

Contributions to Meetings:

Contributions and proposals for ACTA action should be submitted to the ACTA Secretariat no later than ten days prior to the meeting at which action is anticipated. The Secretariat will distribute all contributions received to the entire Council membership no later than one week prior to the meeting at which action is anticipated. Contributions submitted after that deadline may be deferred for later action. A contribution template is available for download on the ACTA website. For more information please email to acta@atis.org

5. **Old business**

There was no old business.

6. **New Business**

There was no new business

7. **Meeting Schedules**

   a. **Next Meeting**

   The next meeting will be held the week of May 6-10, 2002   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:

   > Hyatt Regency Crystal City
   > 2799 Jefferson Davis Highway
   > Arlington, VA 22202
   > Phone: 703/418-1234
   > Fax: 703/418-1233
   > Rate: $145.00
   > Cut-off Date: April 5, 2002

   Note: This meeting is not co-located with T1E1. The T1E1 committee will be meeting on April 8-12, 2002

   b. **Future Meetings**

   The schedule for future TR-41 meetings is given below. All meetings through the end of 2002, except in May, will be co-located with T1E1.

August 19-23, 2002	Westin Westminster Hotel Denver (Not Firm)
November 18-22, 2002	Sheraton Atlanta Hotel
	165 Courtland Street
	Atlanta, GA
	Phone: 404/659-6500
	Fax: 404/524-1259
	Rate: $140.00
	Cut-off Date: October 17, 2002

8. **Adjournment**

There being no further business, the meeting was adjourned at 10:45 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

Engineering Committee TR41 Schedule for May 6 – 10, 2002

Hyatt Regency Crystal City, Arlington, VA

MONDAY **0800 – 1200** **06 May 2002**	**TR-41.3.1** **(Bleile – 25)**		**TR41.11 TG2** **(Shinn-20)**	
MONDAY **1300 – 1800** **06 May 2002**	**TR-41.3.1** **(Bleile – 25)**	TR-41.3.3 **(Magnuson – 20)**	**TR-41.9.1** **(Havens – 25)**	
MONDAY **1900 – 2200** **06 May 2002**	**TR-41 Leadership** **1800 – 1930** **(Whitesell – 20)**			
TUESDAY **0800 – 1200** **07 May 2002**	**TR-41.3.5** **(McKinnon – 25)**	**TR-41.4.4** **(Baker – 20)**	**TR-41.11** **(Slingerland – 30)**	
TUESDAY **1300 – 1800** **07 May 2002**	**TR-41.3.5** **(McKinnon – 25)**	**TR-41.4.4** **(Baker – 20)**	**TR-41.11** **(Slingerland – 30)**	
TUESDAY **1900 – 2200** **07 May 2002**				
WEDNESDAY **0800 – 1200** **08 May 2002**	**TR-41.3.5** **(McKinnon – 20)**	**TR-41.4** **(Bell – 25)**	**TR-41.9** **(Havens – 30)**	
WEDNESDAY **1300 – 1800** **08 May 2002**	**TR-41.7.3** **(McKinnon – 15)**	**TR-41.4** **(Bell – 25)**	**TR-41.9** **(Havens – 30)**	
WEDNESDAY **1900 – 2200** **08 May 2002**				
THURSDAY **0800 – 1200** **09 May 2002**	**TR-41.7.1** **(Ivans – 15)**	**TR-41.3.5** **RF Ad Hoc** **(VanZandt – 20)**	**TR-41.1** **(Tung – 20)**	
THURSDAY **1300 – 1800** **09 May 2002**	**TR-41.7.1** **(Ivans – 15)** **Followed by** **TR-41.7** **(Ivans – 15)**	**TR-41.3** **(Bress – 25)**	**TR-41.1** **(Tung – 20)**	
THURSDAY **1900 – 2200** **09 May 2002**				
FRIDAY **0800 – 1200** **10 May 2002**		**TR-41 Plenary** **(0800 – 1000)** **(Whitesell – 25)**		

Appendix B
Document list

Number	Source	Description
TR41-02-02-001		TR-41 Document List for 2002
TR41-02-02-002	Secretary	Report for November 9, 2001 Meeting in Greensboro
TR41-02-02-003	Chair	Agenda for February 22, 2002 Meeting in Vancouver
TR41-02-02-004	ACTA	February 18, 2002 Liaison Report (Salinas/Jeffries)

Approved by General Counsel

TR-41 Meeting Report
Date: 2/22/02
Location: Vancouver, BC

Approved: 3/4/02
T#6332