

**Telecommunications Industry Association
TR45 Committee
Mobile & Personal Communications Standards (TR45)
Report of Meeting
June 6-7, 2001
The Drake Hotel, Chicago, IL**

Quorum List, Members Present

Member	Representative	Attendance	
		Last	Prior
1. ArrayComm, Inc.	W. Lye		
2. AT&T Wireless Services	G. Schlanger	X	X
3. CDMA Development Group	S. Samra		X
4. CommWorks Corporation	E. Campbell	X	X
5. CRAG	J. Willse	X	X
6. Ericsson	B. Slocum	X	X
7. InterDigital Communications, Corp.	B. Kiernan	X	X
8. Lucent Technologies, Inc.	C. Blum	X	X
9. Motorola, Inc.	K. Skurnak	X	X
10. NEC America, Inc.	S. Jones	X	X
11. Nokia Mobile Phones	T. Brooks	X	X
12. Qualcomm	F. Quick	X	X
13. SBC Technology Resources, Inc.	T. Watts	X	X
14. Sprint PCS	I. Zeng	X	X
15. Tantivy Communications	C. Barber		
16. Telcordia Technologies	A. Thaper	X	X
17. Toshiba	S. Sheldon	X	X
18. Universal Wireless Communications	B. Harvey	X	X
19. Verizon Wireless	C. Carroll		X

Quorum List, Members Absent

[Note: This table identifies the member companies not present at this meeting. Of these member companies, the ones who also have not attended the last two meetings (no "X" in either the "Last" or "Prior" column) will be dropped from the quorum list for the next meeting.]

Member	Representative	Attendance	
		Last	Prior
6. Alps Electric	R. Miyano	X	
7. Bell South Cellular	A. Thomas		X
8. Fujitsu	S. Takenaka	X	X
9. Nortel Networks	L. Valerius	X	X
10. Oki Network Technologies	<i>Vacant</i>	X	X
11. Panasonic	M. Karimian	X	X
12. Qwest	C. Cook		X
13. Rogers Wireless, Inc.	P. Oldfield	X	X
14. Siemens Telecom Networks	B. Krehl		X
15. U.S. Cellular	C. Wood		X

Others Present

Member	Representative
1. CTIA	R. Kemper
2. Ericsson	G. Gardner
3. Lucent Technologies, Inc.	J. Alphonse
4. Lucent Technologies, Inc.	J. Brownley
5. Lucent Technologies, Inc.	P. Nurse
6. Lucent Technologies, Inc.	F. O'Brien
7. Motorola	J. Kay
8. Motorola	S. Dennett
9. Motorola	S. Migaldi
10. TIA	S. Hoyler

[Note: The number/letters associated with the sections/paragraphs are related to the agenda item number/letter and the order in which they were addressed during the meeting.]

- The TR45 Committee was convened on June 6, 2001, at The Drake Hotel, Chicago, IL at 9:10 AM local time.
 - C.Blum/Chair TR45 called the meeting to order and welcomed the TR45 membership to Chicago.
 - P.Nurse/Vice-Chair offered a few words on the nature of the wireless LAN used to support the electronic distribution of meeting contributions. All were encouraged to connect to the wireless LAN and assistance was offered.
- Meeting attendance was recorded as indicated by the above list and quorum was established.
- The attached meeting agenda was reviewed and approved.
- Regarding the Early Disclosure of Essential Patents, the Chair made the required Advisory Note #11C statement relative to the TIA IPR Policy. There were no comments from the meeting attendees.
- Relative to contributions, the following documents were numbered and assigned accordingly.

Number	Title	Source	Agenda Item
TR45/01.06.06.01	Meeting Agenda	C. J. Blum Chair TR45	3
TR45/01.06.06.02	TR-45 Meeting Report of March 7, 2001	J. Brownley Secretary	6
TR45/01.06.06.03	TR-45 Committee Correspondence	J. Brownley Secretary	7
TR45/01.06.06.04	Report of TIA Subcommittee TR45.1 to TIA Committee TR45	J. Kay Chair TR45.1	9a, 13b, 13d
TR45/01.06.06.05	Subcommittee TR45.2 Report	T.Watts Vice-Chair TR45.2	9b, 11a, 13b, 13d
TR45/01.06.06.06	Report of TR45.3 to TR45	P. Nurse Chair TR45.3	9c, 13b, 13d
TR45/01.06.06.07	Engineering Subcommittee TR45.4 Report to TR45	S. Jones Chair TR45.4	9d, 13b, 13d
TR45/01.06.06.08	TR45.5 Report	J. Alphonse Chair TR45.5	9e, 13b, 13d
TR45/01.06.06.09	TR45.6 Report	E.Campbell Chair TR45.6	9f, 13b, 13d

TR45/01.06.06.10	AHAG Report	C. Carroll Chair AHAG	9g
TR45/01.06.06.11	AHG on NRM, Acronyms & Definitions, Guide to Standards (NAG) Report	B. Slocum Chair NAG	9h
TR45/01.06.06.12	TR-45 2000/2001 Workplan	B.Kidwell TR45 ISD Program Mgr	9k
TR45/01.06.06.13	ESN Administration Report	J. Willse ESN Administrator	9j
TR45/01.06.06.14	AHG on UIM/ESN Report	T.Watts Chair AHG on UIM/ESN	9j
TR45/01.06.06.15	CTIA Liaison Report	R. Kemper CTIA Liaison	8b
TR45/01.06.06.16	ESN Guidelines Version 1.7	J. Willse ESN Administrator	9j
TR45/01.06.06.17	ITU-R Liaison Report	M. Epstein ITU-R Liaison	8g
TR45/01.06.06.18	CITEL Liaison Report	G. Gardner CITEL Liaison	8h
TR45/01.06.06.19	3GPP2 Liaison Report	S.Dennett 3GPP2 Liaison	8k
TR45/01.06.06.20	Report on May 2-3, 2001 TIA WCD and TC Meetings	C. Blum Chair	8i
TR45/01.06.06.21R1	TR45 Committee Correspondence Re: ITU-T SSG Chairman's Letter	J.Brownley Secretary	8f
TR45/01.06.06.22	TR45 Committee Correspondence Re: ITU Global Core Specifications (GCS)	J.Brownley Secretary	8g
TR45/01.06.06.23	TR45 Committee Correspondence Re: 3GPP2 ESA/ESP Stage 1	J.Brownley Secretary	9g
TR45/01.06.06.24	TR45 Committee Correspondence Re: CDG IOTA-HCM	J.Brownley Secretary	9b
TR45/01.06.06.25	TR45 Committee Correspondence Re: ETSI Project Smart Card Platform (SCP)	J.Brownley Secretary	9c
TR45/01.06.06.26	TR45 Committee Correspondence Re: Administration Guidelines for UIM_ID	J.Brownley Secretary	9j
TR45/01.06.06.27 TR45/01.06.06.27R1	TR45 Committee Correspondence Re: ESN Reuse Recommendation and Procedures	J.Brownley Secretary	10a
TR45/01.06.06.28	TR45 Committee Correspondence Re: Fast Packet Access Harmonization	J.Brownley Secretary	9e
TR45/01.06.06.29	Standardized Wireless LAN for TR-45 and its subgroups	P.Nurse Lucent Technologies	10b
TR45/01.06.06.30R1	TR45 Year 2001 Meeting Schedule	J.Brownley Secretary	13a
TR45/01.06.06.31	TR45 Year 2002 Meeting Schedule	J.Brownley Secretary	13c
TR45/01.06.06.32 TR45/01.06.06.32A	EP SCP working draft TS 102 223 Smart Card: Card Application Toolkit (CAT); (Release 4)	J.Brownley Secretary	9j
TR45/01.06.06.33	TR45 Committee Correspondence Re: FCC NPRM to Amend Part 22	J.Brownley Secretary	11b
TR45/01.06.06.34	TR45 Committee Correspondence Re: Standards Status and Ballot Comments	J.Brownley Secretary	8j

TR45/01.06.06.35	TIA Standards Department Contact Information	S.Hoyler TIA	8j
TR45/01.06.06.36R1	Overview of Updated Engineering Manual	S.Hoyler TIA	8j
TR45/01.06.06.37	ITU-T Special Study Group (SSG) on "IMT-2000 and Beyond" Report to TR45	John Visser Nortel Networks	8f
TR45/01.06.06.38	Annex H	S.Hoyler TIA	8j
TR45/01.06.06.39	TIA Technical Committee Draft Meeting Report	S.Hoyler TIA	8j
TR45/01.06.06.40	Annex G	S.Hoyler TIA	8j
TR45/01.06.06.41	Survey Results	S.Hoyler TIA	8j
TR45/01.06.06.42	Work in Process Guidelines	S.Hoyler TIA	8j
TR45/01.06.06.43	TIA Membership By Laws	S.Hoyler TIA	8j
TR45/01.06.06.44R1	Final Release of TIA Engineering Manual	S.Hoyler TIA	8j

6. The meeting report of March 7, 2001 numbered TR45/01.06.06.02 was reviewed. A motion was made and passed with no objections to approve the meeting report.
7. In terms of correspondence, the following item was addressed:
 - **Document 06.03** - This correspondence was provided for information regarding C.Blum's resignation as TR45.2 Chair.
8. In terms of Liaisons, the following was reported:
 - a. **FCC & IEEE** – S.McConoughy was not present. There was no report. It was noted that S.McConoughy resigned as the FCC & IEEE Liaison. It was agreed that a replacement Liaison was not needed and would be removed from the TR45 agenda going forward. It was decided that the TR45 agenda would be re-organized to address the TIA Wireless Communication Division (WCD) only under agenda item 8i with sub-items for the WCD TRIC and Technical Regulatory & Policy Issues both supported by B.Belt of TIA. Thus, B.Slocum resigned as the WCD TRIC contact. Under agenda item 8j, it was agreed that sub-items would be added for the TIA TC and TSSC reports to be provided by TIA. Regarding the FCC NPRM to amend Part 22 on Public Mobile Services, discussion was deferred until agenda item 11b. Nevertheless, concern was raised relative to the need to request an extension of time to respond to the NPRM. It was suggested that any need for an extension be coordinated with the TIA Satellite Communications Division.
 - b. **CTIA** – On behalf of K.Condello, R.Kemper provided Document 06.15 as the written report. It was noted that relative to E-911, that there is the need to ensure that the industry can meet its obligations for Phase II location services especially as it relates to TCP/IP protocols for messaging. CTIA plans to work with the TR45.2 Ad-Hoc on Emergency Services (AHES) to obtain a briefing on the standards implications. It was noted that CTIA is hosting a Critical Issues Forum to address Wireless Number Portability (WNP) on July 18-19, 2001 in Baltimore, Maryland. Regarding Telephone Relay Service (TRS/711), CTIA has developed a proposal to assist carriers in their efforts to comply with the FCC requirements. Interested parties were encouraged to contact CTIA for a copy of the proposal.
 - c. **T1S1, T1E1 & T1A1** – T.Watts indicated that there was no report.

- d. **T1P1** – T.Watts indicated that there was no report.
- e. **TR-46** - There was no TR-46 report. C.Wallace was not present. It was agreed that the TR46 Liaison would be dropped from the TR45 agenda going forward. And, a sub-item would be added under agenda item 8j to address “Other TIA Standards and Engineering Committee Activities” such as TR46.
- f. **ITU-T** – Documents 06.37 and 06.37A (Attachments) were provided by J.Visser as a written report to TR45 on the recent activities in the ITU-T Special Study Group (SSG) on “IMT-2000 and Beyond.” The report indicates a need for TIA consideration and action with respect to “internationalizing” ANSI-41/CDMA2000 systems as an IMT-2000 family member. Documents 06.37 and 06.37A were remanded to the AHAG and the TR45 Subcommittees (with the exception of TR45.1) to review and take action as appropriate relative to the recommendations in Document 06.37, particularly the review of the current draft of IMT.VIS. Document 06.21R1 was provided for information.
- g. **ITU-R** – On behalf of M.Epstein, C.Blum presented Document 06.17 as the written report. It was noted that no meetings of the ITU-R WP8F were held since the last Liaison report to TR45. And, the next WP8F meeting would be held June 27 through July 3 in Stockholm, Sweden. Document 06.22 was provided for information.
- h. **CITEL** – G.Gardner presented Document 06.18 as the written report. It was reported that PCC.I held its first paperless meeting March 26-30, 2001 in Brazil using a LAN and LAN connections. Permission was granted to attach Document 06.29 to a CITEL submission as an example of a viable wireless LAN application. In addition, P.Nurse agreed to address CITEL wireless LAN inquires on a time available basis. It was noted that preparations for WRC-2003 were started at the PCC.III meeting held in Panama City, Panama on March 5-9, 2001. It was noted that G.Gardner is head of the U.S. delegation to the NAFTA Consultative Committee on Telecommunications (CCT). Going forward a CITEL CCT sub-item would be added to the TR45 meeting agenda item 8h. A copy of the most recent CCT meeting report was provided for information and would be posted to TR45MAIN ftpsite.

The Committee recessed for a break at 10:45 AM and reconvened at 11:15 AM.

i. **Commercial Mobile Radio (CMR) Section –**

- **WCD, TSSC, TC** – C.Blum provided Document 06.20 as the written report. It was reported that the new TIA Technical Committee (TC) Chair is James Romlein of MIS Labs. The updated TIA Engineering Manual was approved and effective June 1, 2001. Further discussion of the Manual was deferred until the TIA Report under agenda item 8j. The next TC meeting will be held on Thursday afternoon, September 6, 2001 immediately following the TR45 meeting in Boston, MA. It was noted that TIA is drafting a proposed TIA policy on location technology privacy. The Subcommittees and AHGs were directed to provide comments on location technology privacy at the next TR45 meeting September 5, 2001 in Boston, MA as well as review and provide comments on the CTIA policy statement on location services (to be provided by R.Kemper, CTIA.)
- **WCD Technical Regulatory Issues Committee (TRIC)** – B.Slocum indicated that there was no report.

j. **TIA** – S. Hoyler provided several documents as follows:

- Document 06.35, that contained the TIA Standards Department organizational chart and contact information, was provided for information.
- Document 06.36R1, an overview of the updated TIA Engineering Manual, was provided for information. Attention was draw to four highlighted items as follows:
 1. Membership Continuation (Section 3.2.5)

Regarding membership continuation, TR45 agreed without objection to continue in the same manner relative to membership continuation. In other words, TR45 would comply with Section 3.2.5 Option B (excludes ballots) of the updated TIA Engineering Manual that bases membership continuation on meeting attendance. It was noted that this TR45 decision applies to Committee TR45 and all sub-groups of Committee TR45. Thus, “drops” from quorum would continue as is. However, it was recommended that “adds” to quorum would be status quo during June 2001 and that Section 3.2.5 Option B of the updated TIA Engineering Manual would be enforced effective July 1, 2001 for TR45 and all TR45 sub-groups. This recommendation was agreed to in an effort to give members a window of opportunity to be made aware of the updated TIA Engineering Manual conditions for re-instatement to quorum. It was agreed that this recommendation be included in TR45 correspondence to Dan Bart, TIA.

2. Elections (Section 4),

Regarding the new election process, it was reported that Advisory Note 1 would soon be issued that outlines the initial elections of leadership with respect to the nomination process, letter of support, elections during even/odd numbered years coincident with the Formulating Group numbers, a “grandfather” grace period for certain elections, and more. Sections 3 and 4 of the updated TIA Engineering Manual and Advisory Note 1 were remanded to the Subcommittees to take action as appropriate relative to the election of leadership. It was noted that TR45.2 and TR45.6 shall hold elections in 2004. TR45.1, TR45.3, and TR45.5 shall hold elections in 2001. It was noted that it is desirable for the Formulating Groups to have a Vice-Chair. If the Formulating Group decides to have a Vice-Chair, the election process must be in accordance with the updated TIA Engineering Manual and Advisory Note 1.

3. Contribution template (Annex G),

Annex G was addressed relative to Document 06.40.

4. IPR Statement Holder (Annex H).

Annex H was addressed relative to Document 06.38.

- Document 06.38, the updated TIA patent holder statement found in Annex H of the updated TIA Engineering Manual, was provided for information. TR45 member companies were encouraged to take action as appropriate to comply with the updated TIA patent policy. Document 06.38 was remanded to the Subcommittees and Ad-Hoc Groups to take action as appropriate. It was suggested that the Chairs direct their membership to the updated TIA Engineering Manual and Annex H relative to the requirement to be compliant with the updated TIA IPR policy. Regarding the early disclosure language on meeting agendas, it was suggested that reference to Advisory Note 11C be removed and Section 6.5.1 of the TIA Engineering Manual be investigated for alternative language. It was requested that TIA Staff make both Annex H and Annex G available via download from the TIA website.
- Document 06.39 was provided for information. It was noted that Document 06.39 was misspelled. The title should have been “TIA Technical Committee Draft Meeting Report.” Items of particular interest to TR45 included: (1) the proposed amended TIA by-laws (addressed in Document 06.43.); (2) the proposal on how to reference Project Numbers (PNs) (work in progress) in non-ANSI documents (addressed in Document 06.42.); and (3) the approved updated TIA Engineering Manual dated and effective June 1, 2001 (addressed in Documents 06.36R1, 06.38, 06.40, and 06.44R1).
- Document 06.40, the updated TIA contribution template found in Annex G of the updated TIA Engineering Manual, was provided for information. Document 06.40 was remanded to the Subcommittees and Ad-Hoc Groups to take action as appropriate. It was agreed that TR45 would send correspondence to Dan Bart, TIA, to indicate that effective July 1, 2001 the TR45 Committee, Subcommittee, and Ad-Hoc Group contributions would enforce and accept only the updated TIA contribution template found in Annex G. Such that, the month of June 2001 would be a grace period

in which contributions with the old cover page would not be rejected, to allow members the opportunity to be made aware of the updated contribution template.

- Document 06.41, the results from an electronic resources analysis for standards development, was provided for information. It was reported that the TIA Technical Committee plans to distribute a survey to the TR45 membership to assess the effectiveness, priorities, and processes of the TIA organization.
- Document 06.42, the proposal on how to reference Project Numbers (PNs) (works in progress) in non-ANSI documents, was provided for information. Each TIA Formulating Group has the option to reference “works in progress” in non-ANSI documents. It was noted that the TR-41 example provided reflects only internal TIA PNs not external works in progress. TR45 re-affirmed its position not to reference “works in progress” in the development of TR45 standards. The Subcommittee Chairs were directed to share the TR45 position with the membership of their respective Subcommittees.
- Document 06.43, the proposed amended TIA by-laws, was provided for information. It was noted that the TIA membership by-law in Article III Section 2a was added to include a “limited general membership” to allow (a) communication services common carriers and (b) non-NFTA region based companies if it would be eligible were it formed under the laws of the U.S.
- Document 06.44R1, the updated TIA Engineering Manual dated and effective June 1, 2001, was provided for information. It was reported that the TIA Technical Committee approved the updated TIA Engineering Manual contingent on resolving the outstanding ballot comments. All were encouraged to review and comply with the updated TIA Engineering Manual.

The Committee recessed for lunch at 12:55 AM and reconvened at 2:00 PM.

- k. **3GPP2** – S.Dennett provided Document 06.19 as the written report. It was reported that TSG-C completed a schedule for the development of cdma2000 1xEV-DV specifications aligned with the ITU-R IMT-2000 milestones. The 3GPP2 Steering Committee (SC) approved UIM-ID Guidelines and continues to work with TIA to ensure coordination between UIM-ID and ESN assignments. It was noted that contributions from the April 19-20, 2001 Philadelphia meetings are available on the 3GPP2 website.
- l. **3GPP** – L.Nikkari was not present. There was no report.
- m. **ATIS** – On behalf of E.Hall, J.Brownley provided a brief verbal report. It was noted that the IMSI Oversight Council (IOC) met in San Diego, CA the week of June 4, 2001. On June 12, 2001, the TTY Forum would meet in Washington, DC with the Inter-Active Voice Response (IVR) Forum meeting on June 12-13, 2001. Regarding the FCC Part 68 Report and Order on efforts to privatize the certification of PSTN terminal equipment, ACTA, the joint ATIS/TIA Administrative Council for Terminal Attachment organization, currently lacks six council members. Nominations are open for council members especially carriers and equipment manufactures. More information on ACTA as well as the TTY Forum are available on the ATIS website located at www.atis.org.

9. The following Subcommittee and ad hoc group reports were provided:

- a. **TR45.1 Subcommittee** - J. Kay provided Document 06.04 as the written report. It was reported that a default ballot of TIA/EIA/IS-817-1 to add optional methods for geo-location services on analog systems would be issued. In addition, TIA/EIA-553-B was cancelled.
- b. **TR45.2 Subcommittee** - T.Watts provided Document 06.05 as the written report. Attention was drawn to the project on location services enhancements to specify the architecture, interfaces, and infrastructure capabilities to support location services. This project is scheduled for ballot in August 2001. Document 06.24 was provided for information.

- c. **TR45.3 Subcommittee** – P.Nurse provided Document 06.06 as the written report. It was noted that the dates for the next TR45.3 meeting in San Francisco, CA should have been reflected as June 12-14, 2001 in Document 06.06. It was reported that all work items for TIA/EIA-136 Revision D were under review with little support anticipated at the next meeting of TR-45.3 for continuing a number of items in the work-plan including the addition of procedures and signaling for support of AKA/ESA; the addition of signaling to support Answer Hold and User Selective Call Forwarding; and the investigation of Tandem Free Operation. Document 06.25 was provided for information.
- d. **TR45.4 Subcommittee** – S.Jones provided Documents 06.07 as the written report. It was noted that TR45.4 continues to meet jointly with 3GPP2 TSG-A. There has been much activity on the Phase 1 RAN support for 1xEV-DO in anticipation of TIA balloting.
- e. **TR45.5 Subcommittee** –J.Alphonse provided Document 06.08 as the written report. It was reported that TR45.5 approved RSPC updates for submission to the ITU-R WP 8F meeting in June 2001. The update includes 1xEV-DO but not 1xEV-DV. Clarification and consideration were sought by TR45.5 and TR45.3 on the development of location-related minimum performance standards for analog mobile stations. It was noted that in its 2001 work plan, TR45.1 has no plans for such a work item. Nevertheless, TR45.1 agreed to pursue holding face-to-face meetings co-located with TR45.5 and TR45.3 to address this item. To facilitate the work, TR45.5 agreed to provide the work to date on the cdma2000 minimum performance specifications as well as target dates and milestones by July 2001 to both TR45.1 and TR45.3 and copy-to TR45. Contributions and Subject Matter Experts (SMEs) were encouraged to support this work item. Document 06.28 was provided for information. It was noted that a joint meeting between TR45.5 and 3GPP to consider harmonization of 1xEV-DV and HSDPA would not be feasible until the October 2001 timeframe.
- f. **TR45.6 Subcommittee** – E.Campbell provided Document 06.09 as the written report. It was noted that TR45.4 continues to meet jointly with 3GPP2 TSG-P. And, works continues on the next version of the cdma2000 Wireless IP Network Standard (TIA/EIA/IS-835-A).
- g. **Ad Hoc Authentication Group (AHAG)** – C. Carroll provided Document 06.10 as the written report. The AHAG recommended that Greg Rose of Qualcomm be appointed the new TR45 liaison to 3GPP S3 to fill the vacancy left by the withdrawal of support by AT&T Wireless of the former liaison. TR45 accepted the AHAG recommendation without objection. There was lengthy discussion relative to the Enhanced Cryptographic Algorithms (ECA) Revision 0 support of AES for IS-2000-A. TR45.5 was directed to comply with the previously agreed upon TR45 mandated and include support of AES in IS-2000-A. The AHAG indicated that ECA Revision 0 was available on the TIA ftpsite located at <http://ftp.tiaonline.org/TR-45/TR45AHAG/Public%20Documents> . The AHAG indicated its plans to continue to work closely and provide security support to 3GPP2 unless directed otherwise by TR45. No TR45 objection was noted. Document 06.23 was provided for information.
- h. **AHG on NRM, Acronyms & Definitions, Guide to Standards (NAG)** - B. Slocum provided Document 06.11 as the written report. It was reported that TSB-100-A was sent to TIA for publication in March 2001. However, the published version of TSB-100-A had not been made available to date. S.Hoyler, TIA, agreed to check on the status of the publication. It was noted that there have been no NAG meetings and none planned. The next NAG meeting to be determined based on the submission of contributions.
- i. **AHG on Electronic Media Documentation** – There was no report.
- j. **AHG on UIM/ESN** - T.Watts provided Document 06.14 as the written report that indicated that there was nothing to report. Documents 06.26 and 06.32 were provided for information for consideration. Document 06.26, Administration Guidelines for UIM_ID, was remanded to the AHG on UIM/ESN and TR45.3 for response back to 3GPP2 TSG-S.

- **ESN Administration** – J.Willse provided Document 06.13 as the written report. It was noted that only 86 ESN codes remain available for assignment, one less than indicated in Document 06.13. At the present assignment rate, ESN exhaust was projected for 1Q05. It was stressed that exhaust is eminent and the implementation of new and/or changed ESN codes is recommended as soon as possible. Document 06.16 was provided for information. Document 06.16, the ESN Guidelines and Procedures, Version 1.7, was forwarded to TIA for publication.

- k. **TR45 Standards Development Program Report** – J.Brownley, on behalf of B.Kidwell, provided Document 06.12 as an updated version of the TR45 Program Management Report, Version 3.8. Document 06.12 was remanded to the Subcommittee Chairs to take action as appropriate to ensure and clarify end-to-end support. The Chairs were directed to respond directly back to B.Kidwell by the end-of-June 2001.

The Committee recessed for a break at 4:50 PM and reconvened at 5:10 PM.

The Committee recessed for the day at 5:15 PM and reconvened at 8:40 AM Thursday, June 7, 2001.

10. Regarding the continuation of old business, the following items were addressed:

- a. **ESN Reuse Recommendation and Procedures** – Regarding ESN reuse, the TIA WCD raised concern regarding the possible denial of service if two handsets have the same ESN and requested that any impacts of re-use be carefully evaluated. Nevertheless, the TIA WCD agreed to support and forward the TR45 correspondence to the FCC provided that language were incorporated that notes the FCC NPRM to amend Part 22 and its potential impacts on ESN regulations. Document 06.27, proposed correspondence to the FCC to allow ESNs older than 10 years to be re-used, was provided for information for consideration. It was agreed without objection to forward the correspondence as amended (reflected in Document 06.27R1) to Bill Belt of TIA to forward to the FCC. The proposed correspondence was amended to address the concerns of the WCD and to update the number of available ESNs.
- b. **Application of Web Technology to Standards Committees** – P.Nurse provided a presentation and Document 06.29 on the standardized wireless LAN for TR45 and its subgroups. It was noted that the major concern is funding. There is insufficient budget to support the application of web technology at Standards Committees meetings. It was agreed to go forward with the wireless LAN at each Committee TR45 meeting with TIA providing the equipment. Concern was raised regarding the administration, training, operation, trouble shooting, and disaster recovery of equipment during each meeting. The TR45 Secretary agreed to make available all contributions on a CD for back-up/recovery at each TR45 meeting. P.Nurse volunteered to operate and administer the wireless LAN server at the next two TR45 meetings in 2001. Document 06.41, the TIA results from the electronic resources analysis for standards development, was reintroduced. It was noted that the two major needs were wireless LANs and LCD projectors at each meeting. Committee TR45 was encouraged to identify its needs and what TIA needs to be a better e-association. In order to forward to TIA a consolidate list of TR45 needs in time for the TIA Board meeting in August 2001, S.Hoyler of TIA agreed to convene a conference call meeting during the second week of July 2001 of the TR45 Ad-Hoc Group on EMD with representation from each Subcommittee and AHG to include the Chairs, EDCs, and any other interested parties. In addition, Jeff West of 3GPP2 would be invited to participate.
- c. **Other** – Regarding UIM_ID, S.Migaldi, the 3GPP2 TSG-S UIM_ID AdHoc Chair, provided a brief verbal update on the 3GPP2 UIM_ID Assignment Guidelines. In addition, it was noted that there was a conference call held between TIA, TR45, and 3GPP2 relative to UIM_ID after the TR45 meeting on June 6, 2001. It was proposed that TIA administer the UIM_ID codes to U.S. based companies and blocks of codes to the non-U.S. based 3GPP2 partners for re-distribution to their respective member companies, based on the amended Guidelines developed by 3GPP2. Two key concerns were raised during the TR45 meeting such that (1) the administration of UIM_ID codes would be outside the scope of 3GPP2 because of the technology neutral nature of the codes; and (2) the considerations of the international SDOs. It was suggested that TR45.3 be contacted for its input.

11. Relative to new business, the following items were addressed:

- a. **Subcommittee TR45.2 Chair Appointment** – Document 06.05 was re-introduced. Subcommittee TR45.2 recommended to Committee TR45 that Terry Watts be appointed Chair of the TR45.2 Subcommittee on Wireless Intersystem Technology. Without objection, Committee TR45 appointed Terry Watts of SCB Technology Resources as the new TR45.2 Chair. It was noted that the Chair election held in Subcommittee TR45.2 was compliant with the election procedures in the updated TIA Engineering Manual.
- b. **FCC NPRM to Amend Part 22 of the Rules** – Document 06.33 was provided for information. Individual member companies were encouraged to respond directly to the FCC NPRM to amend part 22 of the rules and/or provide input to the TIA contact Bill Belt.
- c. **Other** – Nominations were opened for TR45 Vice-Chair. The TR45 Secretary was directed to broadcast via the TR45 reflector a solicitation for nominations with August 1, 2001 as the cut-off date. Nominees would be directed to notify D.Bart of TIA, S.Holyer of TIA, and J.Brownley the TR45 Secretary of their intentions. Regarding the TR45.2 Vice-Chair, TR45.2 requested and received a waiver of the “30-day notification” requirement, so that TR45.2 could proceed with its Vice-Chair election at its next meeting, in light of the fact, that TR45.2 had begun soliciting candidates prior to the June 1, 2001 effective date of the updated TIA Engineering Manual.

12. In review of assignments, they are identified per above.

13. Review Meeting Schedules

- a. **TR45 2001 Schedule** – Document 06.30R1 was provided for information and reflects the correct TR45 November 28-29, 2001 meeting dates for Atlanta, GA.
 - b. **Subcommittees and AHG 2001 Schedules** - Documents 06.04, 06.05, 06.06, 06.07, 06.08, and 06.09 were provided for information.
 - c. **TR45 2002 Schedule** – Document 06.31 was provided for information. It was noted that the TR45 December 4-5, 2002 meeting location was changed to the Los Angeles, CA area.
 - d. **Subcommittee and AHGs 2002 Schedules** – Documents 06.04, 06.05, 06.06, 06.07, 06.08, and 06.09 were provided for information.
14. Regarding open discussion, there was discussion of the duration of future TR45 meetings. It was proposed and accepted that going forward Committee TR45 meetings would maintain a 2-day schedule with the meeting to start at 8:00 AM and the agenda rearranged to address “Liaison Reports” after “New Business”. Remanded items were listed as follows:
- Document 06.12 to Subcommittee Chairs
 - Document 06.26 to AHG on UIM/ESN and TR45.3
 - Documents 06.37 and 06.37A to AHAG and Subcommittees (except TR45.1)
 - Document 06.38 to Subcommittees and AHGs
 - Document 06.40 to Subcommittees and AHGs
 - Document 06.44R1 to Subcommittees and AHGs

Version 1.7 of the ESN Guidelines and Procedures were accepted without objectives. It was noted that there is no interest in holding future TR45 meeting at the Drake Hotel in Chicago, IL due to a lack of high-speed modem access from the sleeping rooms. In addition, concerns were raised about the suitability of The Boston Park Plaza Hotel in Boston, MA, the location of the next TR45 meeting.

15. Having concluded the meeting's deliberations, a motion was made to adjourn. The meeting was conducted in accordance with the TIA Engineering Manual and was adjourned at approximately 11:25 PM local time June 7, 2001.

Cheryl J. Blum
Chair
Engineering Committee TR45

Jane C. Brownley
Secretary
Engineering Committee TR45

Organization: ANSI Accredited Engineering Committee TR45
Mobile & Personal Communications Standards (TR45)
Chair: Cheryl J. Blum
Lucent Technologies, Bell Labs
630-713-1449, Fax 630-713-1921
Date: Wednesday, June 6 through Thursday, June 7, 2001
Time: Convene at 9:00 AM Local Time
Adjournment at approximately 5:00 PM Local Time
Location: The Drake
140 East Walton Place
Chicago, IL 60611
Telephone: 312-787-2200
Fax: 312-787-1431
Rate: \$175.00
Cut-off: May 5, 2001
EDC Cut-off: May 30, 2001 11:59 PM Eastern Time (Please see Note 2 below.)
FTP Sites: <http://ftp.tiaonline.org/TR-45/TR45MAIN/INCOMING>
<http://ftp.tiaonline.org/TR-45/TR45MAIN/WORKING/current>

AGENDA

PLEASE READ: See the notes below for important information relative to the meeting agenda and the electronic distribution of contributions.

1. Call to Order & Opening Remarks
2. Attendance Registration & Roll Call
3. Agenda Review & Approval (*TR45/01.06.06.01*)
4. Advisory Note #11C (see Note 3 below) re: Early Disclosure Policy
5. Introduction of Contributions & Numbering (Please see Note 2 below.)
6. Review of Meeting Report from Previous Meetings, Secretary (*TR45/01.06.06.02*)
7. Correspondence (*TR45/01.06.06.03*)
8. Liaison Reports
 - a. FCC & IEEE, *Vacant*
 - b. CTIA, K.Condello (*TR45/01.06.06.15*)
 - c. T1S1, T1E1 & T1A1, T. Watts
 - d. T1P1, T.Watts
 - e. TR46, C.Wallace
 - f. ITU-T, *Vacant* (*TR45/01.06.06.21R1*), (*TR45/01.06.06.37*)
 - g. ITU-R, M.Epstein (*TR45/01.06.06.17*), (*TR45/01.06.06.22*)
 - h. CITELE, G.Gardner (*TR45/01.06.06.18*)
 - i. Commercial Mobile Radio Section (CMRS), Chair
 - WCD, TC, TSSC, Chair (*TR45/01.06.06.20*)
 - WCD Technical Regulatory Issues Committee (TRIC), B.Slocum
 - j. TIA, S.Hoyler (*TR45/01.06.06.34*), (*TR45/01.06.06.35*), (*TR45/01.06.06.36R1*), (*TR45/01.06.06.38*), (*TR45/01.06.06.39*), (*TR45/01.06.06.40*), (*TR45/01.06.06.41*), (*TR45/01.06.06.42*), (*TR45/01.06.06.43*), (*TR45/01.06.06.44R1*)
 - k. 3GPP2, S.Dennett (*TR45/01.06.06.19*)

Note 1: Recesses may occur at any point in the agenda, when necessary, for breaks, meals, and recessing for the day.

Note 2: Contributions uploaded to the TIA ftp site by the cut-off date will not be distributed via paper copy at the meeting.

Contributions not uploaded prior to the cut-off date must be provided in paper copy at the meeting. For access to the ftp sites, the username/password is tiatr45/1tr45. For electronic documentation distribution guidelines see the Guidelines for TR45 Electronic Document Coordination Process and Policy appended to the TIA Guidelines for Electronic Document Coordinators (EDC) located at http://www.tiaonline.org/standards/sfg/edc_guidelines.cfm For TIA ftp site assistance contact Stephanie Montgomery, Manager, Technical & Regulatory Affairs at (703) 907-7735 or smontgom@tia.eia.org

Organization: ANSI Accredited Engineering Committee TR45
 Mobile & Personal Communications Standards (TR45)
 Date: Wednesday, June 6 through Thursday, June 7, 2001
 Time: Convene at 9:00 AM Local Time
 Adjournment at approximately 5:00 PM Local Time

AGENDA (cont'd)

- l. 3GPP, L.Nikkari
- m. ATIS, E.Hall
9. Reports
 - a. TR45.1 Subcommittee, J.Kay (*TR45/01.06.06.04*)
 - b. TR45.2 Subcommittee, T.Watts, TR45.2 Vice-Chair (*TR45/01.06.06.05*), (*TR45/01.06.06.24*)
 - c. TR45.3 Subcommittee, P.W. Nurse (*TR45/01.06.06.06*), (*TR45/01.06.06.25*)
 - d. TR45.4 Subcommittee, S.S. Jones (*TR45/01.06.06.07*)
 - e. TR45.5 Subcommittee, J. Alphonse (*TR45/01.06.06.08*), (*TR45/01.06.06.28*)
 - f. TR45.6 Subcommittee, E.Campbell (*TR45/01.06.06.09*)
 - g. Ad Hoc on Authentication Group (AHAG), C. Carroll (*TR45/01.06.06.10*), (*TR45/01.06.06.23*)
 - h. AHG on NRM, Acronyms & Definitions, Guide to Standards (NAG), B.Slocum (*TR45/01.06.06.11*)
 - i. AHG on Electronic Media Documentation, *Vacant*
 - j. AHG on UIM/ESN, T.Watts (*TR45/01.06.06.14*), (*TR45/01.06.06.26*), (*TR45/01.06.06.32*)
 - ESN Administrator Report, J.Willse (*TR45/01.06.06.13*), (*TR45/01.06.06.16*)
 - k. TR-45 Standards Development Program Report, B.Kidwell (*TR45/01.06.06.12*)
10. Old Business
 - a. ESN Reuse Recommendation and Procedures (*TR45/01.06.06.27*), (*TR45/01.06.06.27R1*)
 - b. Application of Web Technology to Standards Committees (*TR45/01.06.06.29*)
 - c. Other
 - UIM ID
11. New Business
 - a. Subcommittee TR45.2 Chair Appointment (*TR45/01.06.06.05*)
 - b. FCC NPRM to amend Part 22 of the Rules (*TR45/01.06.06.33*)
 - c. Other
12. Review Assignments
13. Review Meeting Schedules
 - a. TR45 2001 Schedule (*TR45/01.06.06.30R1*)
 - Sep 5-6 Boston, MA
 - Nov 28-29 Atlanta, GA
 - b. Subcommittees and AHGs 2001 Schedules, (*TR45/01.06.06.04*), (*TR45/01.06.06.05*), (*TR45/01.06.06.06*), (*TR45/01.06.06.07*), (*TR45/01.06.06.08*), (*TR45/01.06.06.09*)
 - c. TR45 2002 Schedule (*TR45/01.06.06.31*)
 - d. Subcommittee and AHGs 2002 Schedules (*TR45/01.06.06.04*), (*TR45/01.06.06.05*), (*TR45/01.06.06.06*), (*TR45/01.06.06.07*), (*TR45/01.06.06.08*), (*TR45/01.06.06.09*),
14. Open Discussion
15. Adjournment

Note 3: TIA's patent policy can be found in Advisory Note 11C. Participants in the work of the TIA Formulating Group are urged to review this Advisory Note. Participants are encouraged to notify TIA of any patents of which they are aware that are related to the practice of a TIA publication early on in the development of the TIA document to reduce the possibility for delays in the development process and increase the likelihood that the draft TIA publication will be approved for publication. Patent searches are not required to comply with the TIA IPR policy. Moreover, the Engineering Manual describes the need for members' disclosure of patents that are essential to practice TIA publications and for members to provide an indication of their willingness to license any known patents.



BUILDING GLOBAL COMMUNICATIONS

Approved by General Counsel

TR-45 Meeting Report
Date: 06/6-7/01
Location: Chicago, IL

Approved: 07/16/01
T# 5873