Approved by General Counsel

TR-45 Meeting Report
Date: 12/2-3/04
Location: Kauai, HI

Approved: 02/24/05
T# 8518

Telecommunications Industry Association
TR-45 Committee
Mobile & Personal Communications Standards (TR-45)
Report of Meeting
December 2-3, 2004
Sheraton Kauai Hotel, HI

Quorum List, Members Present

Member	Representative	Attendance	
		Last	**Prior**
1. Alltel	D. Gentzler		X
2. Axalto, a Schlumberger Company	J. Cung	X	X
3. Cingular Wireless (formerly, AWS)	P. Musgrove	X	X
4. CDMA Development Group	S. Samra	X	X
5. Cisco Systems	P. Yegani		X
6. CommFlow Resources	G. Pellegrino	X	X
7. Ericsson	J. Ragsdale	X	X
8. FBI (CIU)	G. Milonovich	X	X
9. LG Infocomm U.S.A., Inc	K. Kim	X	X
10. Lucent Technologies, Inc.	C. Blum	X	X
11. InterDigital Communications, Corp.	B. Kiernan		
12. Motorola, Inc.	B. Bonner	X	X
13. Nextel Communications	B. Levitan	X	X
14. Nokia Mobile Phones	W. Tamminen	X	X
15. Nortel Networks	G. Patel	X	X
16. QualComm	F. Quick	X	X
17. Sprint	G.Turnipseed	X	X
18. Toshiba	J. Madrid	X	X
19. Verizon Wireless	G. Flynn	X	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**
1. Rogers Wireless, Inc.	P. Oldfield	X	X

Others Present

Member	Representative
1. eAccess Ltd.	Y. Obata
2. Axalto, a Schlumberger Company	F. Ennesser
3. Lucent Technologies, Inc.	J. Alphonse
4. Lucent Technologies, Inc.	J. Brownley
5. Lucent Technologies, Inc.	P. Nurse
6. Navini Networks	D. Maez
7. Nokia	P. Sitch
8. Qualcomm	D. Crowe

9. Sprint	D. Prochaska
10. TIA	S. Montgomery
11. Toshiba	S. Sheldon
12. Tridea Works (on behalf of CIU/ESTS)	J. Trakinat
13. Tridea Works, LLC	H.Hodor

[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.]

1. The TR-45 Committee was convened on December 2, 2004, at the Sheraton Kauai Hotel in HI, at 1:10 PM local time.
   - C.Blum/Chair TR-45 called the meeting to order and welcomed the TR-45 membership to Kauai.

2. Meeting attendance was recorded as indicated by the above list and quorum was established.

3. The attached meeting agenda was reviewed and approved as amended.

4. Regarding the Early Disclosure Policy, the Chair duly informed the meeting attendees. There were no comments from the meeting attendees.

5. Relative to contributions, the following documents were numbered and assigned accordingly. Everyone was strongly encouraged to uploaded contributions to the TIA ftpsite prior to the meeting.

Number	Title	Source	Agenda Item
TR45/04 .12.02.00R1	Contribution Assignment List	J.Brownley Secretary	5
TR45/04 .12.02.01R1	Meeting Agenda	C.Blum Chair TR45	3
TR45/04 .12.02.02	TR-45 Meeting Report of June 2-3, 2004	J. Brownley Secretary	6
TR45/04 .12.02.03	< not used >		
TR45/04 .12.02.04	TR-45 Report to TIA Technical Committee	C. Blum Chair	11f
TR45/04 .12.02.05	Subcommittee TR-45.2 Report	D. Crowe Chair TR-45.2	9b, 14b
TR45/04 .12.02.06	Report of TR-45.3 to TR-45	P. Musgrove Chair TR-45.3	9c, 14b
TR45/04 .12.02.07	TR-45.4 Report	G. Turnipseed Chair TR-45.4	9d, 14b
TR45/04 .12.02.08	TR-45.5 Report	J. Alphonse Chair TR-45.5	9e, 14b
TR45/04 .12.02.09	TR-45.6 Report to TR-45	P.Yegani Chair TR-45.6	9f, 14b
TR45/04 .12.02.10	AHAG Report	F. Quick Chair AHAG	9g
TR45/04 .12.02.11R1	AHG on UIM/ESN Report	G. Pellegrino, Chair AHG on UIM/ESN/MEID	9i
TR45/04 .12.02.12	ESN Administrator's Report	B.Belt ESN Administrator	9i
TR45/04 .12.02.13	AHG on LAES Report	T.Brooks Chair AHG on LAES	9j

TR45/04 .12.02.14	AHG on Electronic Media Documentation (AHEM) Report	P. Nurse Chair AHEM	9h
TR45/04 .12.02.15	TR-45 Standards Program Report	J. Alphonse TR-45 Program Mgr	9l
TR45/04 .12.02.16	ITU-R Liaison Report	M.Epstein ITU-R Liaison	12c
TR45/04 .12.02.17	< not used >		
TR45/04 .12.02.18	< not used >		
TR45/04 .12.02.19	WCD Report	B.Belt TIA WCD Liaison	12e
TR45/04 .12.02.20	WCD TRIC Report	B.Belt TIA WCD Liaison	12f
TR45/04 .12.02.21	< not used >		
TR45/04 .12.02.22	3GPP2 Liaison Report	G. Flynn 3GPP2 Liaison	12h
TR45/04 .12.02.23	< not used >		
TR45/04 .12.02.24	< not used >		
TR45/04 .12.02.25	TR-45 Committee Correspondence Re: Letter of Invitation to Lawful Intercept JEM	J.Brownley Secretary	11d
TR45/04 .12.02.26	TR-45 Committee Correspondence Re: 3GPP2 V&V All IP NAM	J.Brownley Secretary	11a
TR45/04 .12.02.27	TR-45 Committee Correspondence Re: Status Report of PTSC (T1S1) LAES SC Effort	J.Brownley Secretary	12j
TR45/04 .12.02.28	TR-45 Committee Correspondence Re: OID Assignment Request	J.Brownley Secretary	11e
TR45/04 .12.02.29	TR-45 Committee Correspondence Re: Project MESA	J.Brownley Secretary	10e
TR45/04 .12.02.30	TR-45 Committee Correspondence Re: More Specific Location Information	J.Brownley Secretary	9j
TR45/04 .12.02.31	TR-45 Committee Correspondence Re: UIM_IDs	J.Brownley Secretary	9i
TR45/04 .12.02.32	TR-45 Committee Correspondence Re: Updates to ITU M.1073-1	J.Brownley Secretary	11g
TR45/04 .12.02.33	Proposed Reorganization Structure for LAES Work	B. Levitan Nextel	10a
TR45/04.12.03.01	New Project Request and Authorization Form Re: Technical Aspects of Surveillance of Push-to-Talk over Cellular for cdma2000	C. Blum Chair	9j
TR45/04.12.03.02	Subcommittee TR-45.1 Project Numbers	C. Blum Chair	10b
TR45/04.12.03.03	TIA Press Release re: GLOBALCOMM Event	C. Blum Chair	12g
TR45/04.06.02.30	TR-45 Committee Correspondence Re: ITU-T SSG Q.1742.2 Publication Status	J.Brownley Secretary	10c
TR45/04.09.01.13a	AHG on LAES Report	T.Brooks Chair AHG on LAES	10a
TR45/04.09.01.34R1	TR-45 Committee Correspondence Re: Project MESA Brochure	J.Brownley Secretary	10e

| TR45/04.09.01.37 | Project MESA Information for TR-45 | J.Brownley Secretary | 10e |
| TR45/04.09.01.31 | TR-45 2005 Meeting Calendar | J.Brownley Secretary | 14a |

6. The meeting report of September 1-2, 2004 numbered TR45/04.12.02.02 was reviewed. A motion was made and passed with no objections to approve the meeting report with the following modification.

   Change agenda item 11 a. to "There was no CTIA report." on page 9.

7. In terms of correspondence, there was no additional correspondence provided other than the correspondence already attributed to other agenda items.

8. Committee TR-45 Chair Election
   TIA and the TR-45 Chair indicated that there were no nominations for TR-45 Chair received prior to the meeting. There were no additional nominations from the floor during the meeting. TIA conducted a vote of the TR-45 quorum members to waive the TIA Engineering Manual term limit to permit the incumbent TR-45 Chair to run for an additional term. Without objection the result of the vote was to approve a waiver to the TIA Engineering Manual term limit to permit the incumbent TR-45 Chair to run for an additional term. Subsequently, Cheryl J. Blum of Lucent Technologies was re-elected as TR-45 Chair by acclamation for a third 2-year term.

9. The following Subcommittee and Ad-Hoc Group reports were provided:

   a. **TR-45.1 Subcommittee** – TR-45.1 remains dormant. There was no report.

   b. **TR-45.2 Subcommittee –** D.Crowe provided Document .05 as the written report. TR-45.2 reported that the problems experienced with balloting and publication of 3GPP2 specifications were being worked with TIA. Also, it was reported that TR-45.2 had received no contributions on NGN, therefore no action had been taken. Regarding LAES IMS work, it was agreed to defer discussion until later during the meeting.

   c. **TR-45.3 Subcommittee** – P.Musgrove provided Document .06 as the written report. It was reported that TR-45.3 continues to work jointly with T1P1 to provide input to WP 8F for TDMA-SC in ITU-R Recommendation M.1457-5. In addition, the letter of conveyance and the associated transposition list were sent to WP 8F prior to the October 1, 2004 deadline.

   d. **TR-45.4 Subcommittee** – G.Turnipseed provided Document .07 as the written report. Attention was drawn to recent and planned activities related to TIA-2001.1~7-D (IOS for cdma2000 Access Network Interfaces), TIA-2006 IOS for BCMCS, TIA-1070 IOS for HAT Authentication, TIA-878-A, and TIA-1878-A (IOS HRPD.)

   e. **TR-45.5 Subcommittee** – J.Alphonse provided Document .08 as the written report. It was noted that TR-45.5 provided the update submission for CDMA MC for Revision 5 of the ITU-R Recommendation M.1457 by the October 1, 2004 deadline.

   f. **TR-45.6 Subcommittee** – P.Yegani provided Document .09 as the written report. Work in TR-45.6 as it relates to cdma2000® packet data surveillance was deferred until agenda item 9k.

j. **AHG on LAES** – T.Brooks provided Document .13 as the written report. It was reported that the ballot comment letters to reply to the first default ballot of ANS J-STD-025-B had not been sent, as yet. In order to send all of the reply letters at the same time, the AHG was awaiting TIA completion of the last letter to CIU. It is anticipated that TIA would complete the outstanding ballot comment letters by December 21, 2004. It was noted that the second default ballot would be initiated by end-of-year 2004 as soon as the ballot comment letters were sent. If feasible, TR-45 recommended that the AHG make every effort to correct the technical errors in the ASN.1 section during the second default ballot of ANS J-STD-025-B via due process.

The Committee recessed for a break at 3:10 PM and reconvened at 3:25 PM.

Document .30 was provided for information. It was agreed to address the other documents associated with packet data surveillance (attributed to agenda items 9b and 10a) during this agenda item. It was agreed that work in the LAES AHG would continue (i.e., the default ballot of J-STD–025-B), therefore discussion on the future of the AHG was deferred until the March 2005 meeting of TR-45. Document TR45/04.09.01.13a, the LAES scope and charter, was carried-forward.

Nextel presented Document .33 that proposed a restructure of the J-STD-025-B document into a multi-part standard. It was agreed that Document .33 would be R&R'd (i.e., revised and resubmitted) to the next meeting of TR-45 in March 2005. Furthermore, it was suggested that TR-45 defer discussion on the concepts in this document until other issues have been addressed (such as arrangements for joint work with ATIS and the TIA identification of a group to address the legal aspects.)

Regarding additional cdma2000® packet data surveillance capabilities and work, it was agreed to review this topic again at the March 2005 meeting TR-45 while TR-45.6 and TR-45.2 continue their work. Furthermore, TR-45 recommended that TR-45.6 finish the work on the VoIP document and at that time TR-45 would address the next steps. Moreover, TR-45 recommended adherence to the TR-45 decisions reached at the last TR-45 meeting in September 2004 in Arlington, VA. Furthermore, Verizon, Alltel, and Sprint stressed that the work on packet data surveillance needs to move forward expeditiously.

It was noted that D.Bart of TIA, S.Hoyler of TIA, T.Brooks, Chair TR-45 LAES AHG/consultant, Lou Mitchell of Motorola, and N.Bishai of Ericsson joined the meeting via teleconference for this agenda item.

The Committee recessed at 5:30 PM Local Time on Thursday December 2, 2004 and re-convened at 8:05 AM Local Time on Friday December 3, 2004.

It was re-iterated that TR-45 would continue to adhere to the decisions made at the last TR-45 meeting held 1-2 September 2004 in Arlington, VA. The decision, provided in TR45/04.12.02.02, was re-stated as excerpted below.

"... Associated with the documents introduced above, there was lengthy discussion on what actions to be taken by TR-45 on SP-3-4465-UGRV2-2 and the restructure of the electronic surveillance work. In principle, the re-organization of the electronic surveillance work was supported without objection by TR-45. Furthermore, there was support for TR-45 taking the lead, however, not for identifying a single specific lead group within TR-45 to be solely responsible to pull together all technical work. It was agreed that the work should be done where most subject matter experts are normally in attendance such that TR-45.2 was chartered to develop the standards relative to IMS and TR-45.6 was chartered to develop the standards relative to the cdma2000® packet data network technologies. ..."

Furthermore, it was re-iterated that the carriers (Sprint, Verizon) were in agreement that the work on cdma2000® packet data surveillance needs to move forward expeditiously.

The following motion (#1) was made by Qualcomm and seconded by Sprint:

"The current work in TR-45.6, relative to PN-3-0196 (TIA-1066) focused on LAES for VoIP would be completed to publication."
The vote of the TR-45 meeting quorum members on this motion (#1) resulted in 12-for; 4-against, and 4-abstained. Therefore, the motion (#1) passed.

Another motion (#2) was made by Cisco and seconded by Sprint:
"The current work in TR-45.6, relative to PN-3-0192 (TIA-1072) focused on LAES for PoC would be completed to publication."
The vote of the TR-45 meeting quorum members on this motion (#2) resulted in 11-for; 4-against; and 4-abstained (with 1 out-of room at the time of the vote.) Thus, the motion (#2) passed.

Document .03.01, the new project request form for "Technical Aspects of Surveillance of Push-to-Talk over Cellular for cdma2000®" was provided to offer clarification to motion #2 above.

It was noted that the discussion and results of the above motions address the concerns raised in Document .05 by TR-45.2 regarding LAES.

It was agreed that TR-45 would review the status of the work in TR-45.6, as it relates to the two LAES motions passed above, at the next meeting of TR-45 in March 2005 and TR-45 that would discuss the implementation of the decisions reached at the September 2004 meeting of TR-45 regarding packet data surveillance work going forward in TR-45.2 and TR-45.6.

g. **Ad Hoc Authentication Group (AHAG)** – F.Quick provided Document .10 as the written report. TR-45 approved with no objections the ballot version of PN-3-0178 (TR45/04.09.01.10a) for publication as TIA-1053. TR-45 agreed to forward the document to TIA for publication. In addition, TR-45 agreed to forward (with a cover letter) the AHAG letter, provided in document .10a, to Motorola regarding the disposition of the ballot comments.

h. **AHG on Electronic Media Documentation (AHEM) –** P.Nurse provided Document .14 as the written report. The AHEM "Internet Access" project was marked as completed.

i. **AHG on ESN/UIM/MEID (EUMAG) –** G.Pellegrino provided Document .11R1 with attachments .11a through .11c as the written report. Document .11a, a draft trade press release regarding ESN Migration to MEID, was provided for information for consideration. It was agreed to carry-forward Document .11a, with possible amendments by the EUMAG, for review and approval at the next meeting of TR-45 in March 2005. Documents .11b, .11c, and .31 were provided for information. Verizon Wireless requested that the ESN Administrator's Report be modified going forward to indicate the number of pending ESN assignments as well as the number of ESN reclamations per month.

- **ESN Administration** – On behalf of J.Derr, G.Pellegrino presented Document .12 as the written report. It was noted that the target ESN exhaust date was moved to 3Q07.

k. **TR-45 Network Architecture Group (NAG) –** There was no report. The NAG remains dormant.

l. **TR-45 Standards Development Program Report –** J.Alphonse provided Document .15 as the program report for information.

The Committee recessed for a break at 10:10 AM and reconvened at 10:20 AM.

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

a. **Additional cdma2000® Packet Data Surveillance Capabilities and Work**
This agenda item was addressed previously during agenda item 9j.

b. **Status of TR-45.1 Documents such as PN-3610-RV2 (TSB-70) and PN-3477 (TSB-71)**

Regarding the status of outstanding TR-45.1 work, Document .03.02, a preliminary list of the TR-45.1 PNs, was provided for information. Based on the ballot results, TR-45 approved the withdrawal of TSB-71.

c. **ITU-T SSG Q.1742.2 Publication Status**
Document TR45/04.06.02.30 was provided for information. It was noted that this agenda item has been addressed.

d. MEID Press Release
This agenda item was addressed previously during agenda item 9i.

e. **TR-45 Liaison Relationship with Project MESA**
Documents TR45/04.09.01.34R1and TR45/04.09.01.37, carried-forward from the last meeting, were provided for information. Document TR45/04.12.02.29 was provided for information. It was reported that the next meeting of Project MESA would be held in April 2005 in San Diego, CA. It was announced that David Thompson of TIA would be the Project MESA Liaison to TR-45 and that a MESA Liaison would be added to the TR-45 agenda going forward.

The Committee recessed for a break at 10:00 AM and reconvened at 10:20 AM.

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

a. **Ballot of TSB-151-A re: All IP NAM**
Regarding the ballot and transposition of the 3GPP2 NAM document to a TIA standard, Charles Lo of Qualcomm agreed to serve as the TR-45 Editor. TR-45 plans to provide a summary of the TSB-151 ballot comments to TR-45 and to 3GPP2 for resolution. Document TR45/04.12.02.26 was provided for information.

b. **TIA Emergency Services Compendium Updates**
It was noted that periodic updates were solicited from TR-45 and provided to TIA and that TIA subsequently shares the Compendium with several organizations.

c. **TIA Presentation to the ATIS Security Symposium**
It was noted that TIA provided a presentation to the ATIS Security Symposium.

d. **T1P1 Invitation to a Lawful Intercept JEM**
Document TR45/04.12.02.25 was provided for information. The current date for the JEM was reported as 27 January 2005. It was noted that there were several conflicts with that date so the date may change, if sufficient feedback is provided to the meeting organizer.

e. **OID Assignment Request**
Document TR45/04.12.02.28 was provided for information. It was noted that TR-45 was awaiting a response from TIA regarding the OID assignment request.

f. **TR-45 Report to the TIA Technical Committee**
The TR-45 report to the TIA Technical Committee held on 1 October 2004 was provided for information in Document TR45/04.12.02.04.

g. **Updates to ITU M.1073-1**
Document TR45/04.12.02.32 was provided regarding the clarification of the definition and access to TR-45.5 and TR-45.3 standards via "freely available from the hyperlinks" as stated in ITU-R Recommendation M.1073-1. It was agreed that representatives from TR-45.3 (J.Ragsdale) and TIA Staff (S.Montgomery and D.Bart) would work to ensure that due process is followed regarding the ITU-R Recommendation M.1073 hyperlinks in term of TIA registration for access to standards.

12. In terms of Liaisons, the following was reported:

a. **CTIA** – There was no report.

b. **ITU-T** – There was no report.

c. **ITU-R** – On behalf of M.Epstein, F.Quick introduced Document .16, the written report for information.

d. **CITEL** – There was no report.

e. **Wireless Communications Division (WCD)** – On behalf of B.Belt, C.Blum presented Document .19 as the written report for information. It was noted that the next TIA WCD meeting would meet in Vancouver in March 2005, co-located with the TR-45 meeting

f. **Technical Regulatory Issues Committee (TRIC)** – On behalf of B.Belt, C.Blum presented Document .20 as the written report for information.

g. **TIA** – D.Bart provided a verbal report. It was reported that SUPERCOMM would be held in June 2005 in Chicago.

h. **3GPP2** – G.Flynn provided Document .22 as the written report. It was reported that 3GPP2 was planning a 3GPP2 Workshop on "Air Interface and Radio Access Network Evolution" in June 2005 in S.Korea. Furthermore, it was reported that the current 3GPP2 SC and TSG leadership terms would conclude at the end of December 2004 with elections scheduled to take place at the December 2004 TSG meetings in Hawaii.

i. **3GPP** – P.Musgrove provided a brief verbal report.

j. **ATIS** – There was no report. It was noted that E.Hall had resigned from ATIS. TR-45 in conjunction with TIA plans to send correspondence to S.Miller of ATIS indicating that E.Hall was the ATIS Liaison to TR-45 and to ask if ATIS would like to designate a new Liaison to TR-45.

k. **IFAST** – D.Crowe provided a brief verbal report. It was reported that the next meeting of IFAST was scheduled for January 2005.

13. In review of assignments, a summary of the assignments was as follows:

1. TIA plans to complete the outstanding ballot comment letters for the first default ballot of ANS J-STD-025-B by December 21, 2004.
2. The LAES AHG plans to make every effort to correct the technical errors in the ASN.1 section during the second default ballot of ANS J-STD-025-B via due process.
3. Nextel to revise and resubmit Document .33 to the next meeting of TR-45 in March 2005.
4. TR-45 to review the status of the work in TR-45.6, as it relates to the two LAES motions passed during the meeting, at the next meeting of TR-45 in March 2005 and TR-45 to discuss the implementation of the decisions reached at the September 2004 meeting of TR-45 regarding packet data surveillance work going forward in TR-45.2 and TR-45.6.
5. TR-45 agreed to forward to TIA the ballot version of PN-3-0178 (TR45/04.09.01.10a) for publication as TIA-1053.
6. TR-45 agreed to forward (with a cover letter) the AHAG letter, provided in document .10a, to Motorola regarding the disposition of their ballot comments.
7. It was agreed to carry-forward Document .11a, with possible amendments by the EUMAG, for review and approval at the next meeting of TR-45 in March 2005.
8. The ESN Administrator's Report will be modified going forward to indicate the number of pending ESN assignments as well as the number of ESN reclamations per monthly.
9. TR-45 plans to provide a summary of the TSB-151 ballot comments to TR-45 and to 3GPP2 for resolution.
10. Representatives from TR-45.3 (J.Ragsdale) and TIA Staff (S.Montgomery and D.Bart) would work to ensure that due process is followed regarding the ITU-R Recommendation M.1073 hyperlinks in term of TIA registration for access to standards.
11. TR-45 in conjunction with TIA plans to send correspondence to S.Miller of ATIS indicating that E.Hall was the ATIS Liaison to TR-45 and to ask if ATIS would like to designate a new Liaison to TR-45.

13. Review Meeting Schedules, continued

   a. **TR-45 2005 Schedule –** Document TR45/04.09.01.31 was provided for information. It was noted that J.Franz, the TIA TR-45 meeting planner, would be leaving TIA at end-of-year 2004 and that other arrangements will be made.

   b. **Subcommittees and AHG 2005 Schedules** - Documents .05, .06, .07, .08, and .09 were provided for information.

14. Open Discussion
   The Chair TR-45 thanked the TR-45 membership for re-election and thanked the TIA Staff and the TR-45 Secretary for their continued support.

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 TIA Legal Guide and was adjourned at approximately 12:30 PM local time December 3, 2004.

Cheryl J. Blum
Chair
Engineering Committee TR-45

Jane C. Brownley
Secretary
Engineering Committee TR-45