Approved by General Counsel

TR-45 Meeting Report

Date(s): 09/04/2013 - 09/05/2013

Location: Arlington, VA

Approved: 09/16/2013

Telecommunication Industry Association (TIA)
TR-45 Committee
Mobile & Personal Communications Standards
Report of Meeting
4-5 September 2013

1. **Call to Order & Opening Remarks**
   The TR-45 Committee was convened on 4 September 2013 at TIA Headquarters in Arlington, VA at 1:05 PM local time. J.Brownley/Chair called the meeting to order and welcomed the TR-45 membership to the new TIA Headquarters in Arlington, VA.

   G.Seiffert/TIA President also welcomed the TR-45 membership to the new TIA Headquarters and provided an overview of TIA activities. In addition, G.Seiffert initiated discussion on interest in and direction of future technologies and standards globally. C.Blum/TIA Vice President Standards and Technology introduced D.Coffey/TIA Vice President Government Affairs, and B.Scarpelli, Sr. Manager Government Affairs, who both provided a few brief remarks.

2. **Important Notice of Participation**
   The Chair duly informed the meeting attendees of the Important Notice of Participation provided on the meeting agenda in Note 1.

3. **Attendance Registration & Roll Call**
   Meeting attendees signed-in electronically at tr45.tiaonline.org and attendance was recorded as indicated by the quorum information provided below. Quorum was established.

Quorum List – Members Present			
Member	**Representative**	**Attendance**	
		Last	**Prior**
1. Alcatel-Lucent	J. Brownley	X	X
2. CommFlow Resources	G. Pellegrino	X	X
3. Ericsson	J. Ragsdale	X	X
4. Qualcomm, Inc	F. Quick	X	X
5. Sprint	B. Chen		
6. Verizon Wireless	Z. Zhao		

Quorum List – Members Absent			
Member	**Representative**	**Attendance**	
		Last	**Prior**
7. CDMA Development Group	S. Samra	X	X
8. LG InfoComm U.S.A., Inc.	S. Kim	X	X

[Note: The "Quorum List – Members Absent" 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.]

Others Present	
Member	**Representative**
1. Alcatel-Lucent	B. Covell (virtual)
2. Alcatel-Lucent	F. O'Brien
3. Alcatel-Lucent	O. Pearson (virtual)
4. Alcatel-Lucent	S. Mizikovsky (virtual)

Others Present	
Member	**Representative**
5. CTIA	R. Kemper
6. CTIA	J. Marinho
7. Qualcomm	D. Ott (virtual)
8. TIA	C. Blum
9. TIA	J. Derr
10. TIA	S. Montgomery

4. Agenda Review & Approval

A motion was made by F.O'Brien and seconded by F.Quick to approve the meeting agenda provided in document .01r2 as amended. The motion passed with no objections.

Chair's Note, the meeting agenda provided in document .01r3 as amended during the course of the meeting is available at http://ftp.tiaonline.org/TR-45/TR-45_MAIN/WORKING/2013sep.

5. Early Disclosure Policy

The Chair duly informed the meeting attendees of the TIA Patent Policy, per Note 3 on the meeting agenda. There were no comments from the meeting attendees regarding the early disclosure of patents.

6. Introduction of Submissions and Contributions and Numbering

The following documents were numbered and assigned accordingly. Meeting participants were strongly encouraged to upload contributions to the TIA ftpsite prior to the start of the meeting.

Number	Title	Source	Agenda Item
TR45/13.09.04.00r3	Submission & Contribution Assignment List	J.Brownley Chair	6
TR45/13.09.04.01r3	Meeting Agenda	J.Brownley Chair	4
TR45/13.09.04.02	TR-45 Meeting Report of 10 June 2013	J.Brownley Chair	7
TR45/13.09.04.03r1	TR-45.3 Report	J. Ragsdale Acting Chair	8a, 13a
TR45/13.09.04.04/a/ b/c/d	CTIA Cybersecurity Activities	CTIA	10a
TR45/13.09.04.05/a	TR-45.5 Report	O. Pearson Chair TR-45.5	8c, 13b
TR45/13.09.04.06/a/ b/c	TR-45.8 Report	B.Covell Chair TR-45.8	8d, 13b
TR45/13.09.04.07	AHAG Report	F.Quick Chair AHAG	8e
TR45/13.09.04.08	TIA Headquarters Hotel Information	TIA TSSC	13a
TR45/13.09.04.09/a	AHG on ESN/UIM/MEID Report	G. Pellegrino Chair AHG on ESN/UIM/MEID	8g
TR45/13.09.04.10	IFAST Liaison Report	E. Hall IFAST Liaison	11j
TR45/13.09.04.11	J-STD-025 Series – TR-45 Activity Status	G. Pellegrino Chair TR-45.8 LIG	8h

TR45/13.09.04.12/ar 1	MEID Administrator's Report	J. Derr MEID Administrator	8g
TR45/13.09.04.13	TR-45 Meeting Schedule for 2013	J.Brownley Chair	13a
TR45/13.09.04.14r1	TR-45 Meeting Schedule for 2014	J.Brownley Chair	13b
TR45/13.09.04.15	TR-45 Working Group on Microwave Systems Report	G. Kizer Chair	8i
TR45/13.09.04.16/a	Liaison Statement from ITU-R SG1 WP1A on Study on Question ITU-R 210-3/1 Wireless Power Transmission	P. Aubineau Counselor, ITU-R SG1	10b
TR45/13.09.04.17/a/ b/c	TIA Response to ITU-R WP5D Liaison Statement on Recommendation M.1457, IMT-2000 Process Updates	S. Montgomery TIA	9a
TR45/13.09.04.18/a/ b	Email from Bell CA on TIA-93-B-2[E] Wireless Telecommunications Ai - Di Interfaces Standard	J. Brownley Chair	10c
TR45/13.09.04.19	ITU-R WP5D Confirmation of TIA Submission of "Exceptional Form A"	S. Buonomo Counselor ITU-R SG5	9a
TR45/13.09.04.20	Email regarding ATIS/TIA Joint Coexistence Standard on Coexistence and Interference Issues in Land Mobile Systems	S. Barclay ATIS	10d
TR45/13.09.04.21/a/ b/c	Correspondence from TR-45.8 to TR-45.4 and TR-45.5 regarding Proposed Standards Updates for Wireless Priority Service	B. Covell TR-45.8 Chair	8d
TR45/13.09.04.22/a	Email to ITU-R WP5D from ATIS on Updates to Section 5.4 of Rec. ITU-R M.1457 to Revision 12	S. Barclay ATIS	9a
TR45/13.09.04.23	Email from TIA on Radio Article on 911 Centers Receive Emergency Texts	S. Montgomery TIA	10e
TR45/13.09.04.24	TIA Press Release on TIA TR-45 and TR-41 Engineering Committees Expand Scopes to Include Advances in Technology	S. Montgomery TIA	10f
TR45/13.09.04.25	TIA Engineering Manual 6th Edition – Preview and Overview	TIA TSSC	11f
TR45/13.09.04.26	The TIA Engineering Manual – Requirements for American National Standards (Draft 8b)	TIA TSSC	11f
TR45/13.09.04.27r2	Standards Developer Watch List	TIA TSSC	11f
TR45/13.09.04.28	ANSI Standards Action	TIA TSSC	11f
TR45/13.09.04.29	All New TIA Projects and Scopes	TIA TSSC	11f
TR45/13.09.04.30	TIA TSSC 18 July 2013 Meeting Report	TIA TSSC	11f
TR45/13.09.04.31	TIA Technical Committee (TC) 30 July 2013 Meeting Report	TIA TSSC	11f
TR45/13.09.04.32/a/ b	TR-45 Report to TIA TSSC	J. Brownley Chair	11f
TR45/13.09.04.33/a/ b	Liaison Statement from ITU-R WP5D on Future Technology Trends	S. Blust Chair WP5D	10g

TR45/13.09.04.34/a	Email from TIA to SGIP PAP02WG on TIA Comment on Guidelines for Assessing Wireless Standards for Smart Grid Applications	C. Blum TIA	10h
TR45/13.09.04.35r1	ITU-R WP5D Document on New IMT-2000 Process	J. Ragsdale ITU-R Liaison	9a
TR45/13.09.04.36	TIA Cybersecurity Working Group	S. Montgomery TIA	11f

7. Review of Meeting Report from Previous Meetings

The TR-45 Committee 10 June 2013 meeting report numbered TR45/12.09.04.02 was reviewed. A motion was made by F.O'Brien and seconded by G.Pellegrino to approve the meeting report provided in document .02. The motion passed with no objections.

8. Reports

8a. TR-45.3 Subcommittee

J.Ragsdale presented document .03r1 as the TR-45.3 report to TR-45 for information.

8b. TR-45.4 Subcommittee

It was noted that TR-45.4 had not met since the last TR-45 meeting. The next TR-45.4 is scheduled for the week of 09 September 2013. It was noted that a new Project Number on Wireless Priority Services for interoperable services is anticipated.

8c. TR-45.5 Subcommittee

O. Pearson presented document .05 as the TR-45.5 report to TR-45 for information. Regarding the joint ATIS/TIA Standard on Coexistence and Interference Issues in Land Mobile Systems, it was reported that the ATIS/TIA Coexistence and Interference Standard (J-STD-111) was approved for re-ballot in May 2013. The re-ballot closed and the ballot comments were addressed. Plans are for both TIA TR-45.5 and ATIS WTSC to approve the joint standard for publication at their respective meetings in September 2013.

8d. TR-45.8 Subcommittee

B. Covell provided document .06 with attachments a-c as the TR-45.8 report to TR-45 for information. Document .21 was provided for information.

Regarding JCMAS, it was reported that the joint project to add Spanish language alerts to JCMAS is on hold. ATIS completed their work to add Spanish language alerts to CMAS. Recently, FEMA has recommended an alternate approach to the approach WTSC-SN standardized for CMAS Spanish-language support which may affect the joint project. In addition, the joint project on Canadian Commercial Mobile Alerts Service (CMAS) is on hold, pending input on Canadian CMAS requirements.

Regarding JSMS911, it was reported that an addendum to J-STD-110 has been approved by both TIA and ATIS to address the implementation issues that have arisen following the publication of J-STD-110 earlier this year. In addition, work continues on CMRS and TCC Provider Implementation Guidelines for the Joint ATIS/TIA SMS to 911 Standard (J-STD-110).

8e. Ad Hoc on Authentication Group (AHAG)

Document .07 was provided by F.Quick as the AHAG report to TR-45 for information. A motion was made by F.Quick and seconded by G.Pellegrino to pre-approve the ballot of TIA-PN-4999 "Security Framework for Binding of Access Subscription with Device(s)" (3GPP2 S.P0152). The motion passed with no objections. It was noted that a description of TIA-PN-4999 is available in document .29.

Action TR45/2013-09-01

The AHAG Chair agreed to submit the ballot authorization form for TIA-PN-4999, once the document is available.

8f. AHG on ESN/UIM/MEID (EUMAG)

Document .09 with attachment .09a was provided by G.Pellegrino as the TR-45 ESN/UIM/MEID Ad Hoc Group (EUMAG) report to TR-45 for information.

- **MEID Administrator's Report**
  J.Derr presented Documents .12 and .12aR1, MEID Administration Reports, provided for information.

- **ESN and UIM_ID Administrator's Report**
  J.Derr provided a brief verbal report.

8g. J-STD-025 Series Report

Document .11, the J-STD-025 Series TR-45 activity status table, was provided for information by G.Pellegrino.

8h. OID Administrators Report

There was nothing to report.

8i. TR-45 Working Group on Microwave Systems

On behalf of G.Kizer, J.Brownley presented document .15 as the TR-45 Working Group on Microwave Systems report. There were no comments or questions.

9. Old Business

9a. GCS Proponents for IMT-2000 CDMA-MC and TDMA-SC and Rec. M.1457 Updates

Documents .17, .19, and .22 were provided for information. Document .35r1 that contains the schedule for revision 12 updates of M.1457 (IMT-2000) was reviewed. There was lengthy discussion regarding the deliverables for meeting "X+1" (October 2013) and either meeting "X+2A" (February 2014) or "X+2B" (June 2014). It was noted that the GCS Proponents need to select either meeting "X+2A" or "X+2B". Based on the TR-45 meeting's deliberations, it was agreed that meeting "X+2B" in June 2014 is preferable due to the 3GPP2 meeting schedule for 2014. In addition, TIA volunteered to continue to submit the deliverables for updates to M.1457 for CDMA-MC on behalf of the GCS Proponents.

Action TR45/2013-09-02

TIA agreed to communicate to the 3GPP2 SC/OP that TIA volunteers to continue to submit the deliverables for updates to M.1457 for CDMA-MC noting the upcoming deliverables for meetings "X+1" and either "X+2A" or X+2B."

Action TR45/2013-09-03

For revision 12 updates of M.1457 meeting "X+1", TR-45.5 agreed to provide to TIA the deliverables (i.e., summary and rational) as outlined in Item 4 of Table 1 in file IMT-2000-5e of document .35r1. TIA agreed to submit the deliverable to ITU-R WP5D prior to the 02 October 2013 deadline for meeting "X+1."

Action TR45/2013-09-04

The Chair agreed to work with the 3GPP2 SC/OP on behalf of the GCS Proponents of CDMA-MC to:
- Seek agreement on either meeting "X+2A" or "X+2B" noting that meeting "X+2B" (June 2014) is preferable based on the 3GPP2 meeting schedule for 2014.
- Secure signature pages for Certification Form B.

Action TR45/2013-09-05

For revision 12 updates of M.1457 for either meeting "X+2A" or "X+2B", TR-45.5 agreed to provide to TIA the deliverables (i.e., GCS specifications) as outlined in Items 6 or 7 of Table 1 in file IMT-2000-5e of document .35r1. TIA agreed to submit the deliverables to ITU-R WP5D prior to the deadline for either meeting

"X+2A" or "X+2B" as selected by the GCS Proponents of CDMA-MC.

10. New Business

10a. Briefing on CTIA Cybersecurity Activities

J.Marinho, CTIA VP Cybersecurity & Technology provided a briefing on CTIA Cybersecurity activities. Document .04 with three "White Paper" attached was provided for information. It was noted that CTIA also has a Privacy Working Group and that a fourth "White Paper" on how privacy and cybersecurity fit together is under development. TR-45 members were encouraged to review the "White Papers" provided and to provide feedback to CTIA. Updates to the "White Papers" are planned.

Action TR45/2013-09-06
The Chair will send an email to J.Marinho/CTIA (with a copy to G.Seiffert /TIA and C. Blum/TIA) to express TR-45's appreciation for the briefing on CTIA Cybersecurity activities and to seek opportunities for future presentations or collaborations going forward.

10b. Liaison Statement from ITU-R SG1 WP1A on Wireless Power Transmission

Document .16 contains a Liaison Statement from ITU-R SG1 WP1A seeking information on Question ITU-R 210-3/1 on Wireless Power Transmission to progress the work prior to the next WP1A scheduled for June 2014. It was noted that WPT is outside the scope of Committee TR-45. Document .16 was provided for information.

10c. TIA-93-B-2[E] Wireless Telecommunications Ai - Di Interfaces Standard

Document .18 was provided for information.

10d. ATIS/TIA Joint Coexistence Work

Document .20 was provided for information.

10e. 911 Centers Receive Emergency Texts

Document .23 was provided for information.

10f. TIA Press Release on TIA TR-45 and TR-41 Engineering Committees Expand Scopes

Document .24 was provided for information.

10g. Liaison Statement from ITU-R WP5D on Future Technology Trends

Document .33 contains a Liaison Statement from ITU-R WP5D on a preliminary draft new Report ITU-R M.[IMT.FUTURE TECHNOLOGY TRENDS] to look at the future technologies for terrestrial IMT systems. Input from external organizations is requested before the WP5D 17th meeting 9-16 October 2013 (deadline for input contributions is 2 October 2013, 16:00 hrs UTC).

Action TR45/2013-09-07
Document .33 was remanded to TR-45.5 for information, noting that previously TR-45.5 received the LS directly from 5D.

10h. SGIP PAP02WG Guidelines for Assessing Wireless Standards for Smart Grid Applications

Document .34 that contains TIA comments to SGIP PAP02WG on the Guidelines for Assessing Wireless Standards for Smart Grid Applications was provided for information.

Action TR45/2013-09-08
Document .34 was remanded to TR-45.5 for information

10i. FCC Request for Air Interface Standards

On Wednesday 21 August 2013 members of TR-45 participated on a conference call with representatives from the FCC, TIA, and TR-45 to address an FCC request for information on air interface standards. The TR-45 representatives on the call were J.Ragsdale/Chair TR-45.3, O.Pearson/Chair TR-45.5, and J.Brownley/Chair TR-45. The FCC wanted to: 1. identify air interface standards on receiver and transmitter performance

specifications, 2. identify any standards on interference criteria, 3. understand the process of coordination between TR-45 and other SDOs, and 4. identify current work items on these topics of interest. The catalyst for this request was an FCC Technical Advisory Council (TAC) recommendation to the Commission to consider adding references on the FCC spectrum dashboard to industry standards on receiver and transmitter and related performance specifications. TIA plans to consolidate the list of air interface standards provided by TR-45 and other TIA Engineering Committees to share with the FCC. A copy of the consolidated list will be provided to TR-45 at the next TR-45 meeting in December 2013.

11. Liaison Reports

11a. CTIA
See agenda item 10a above.

11b. ITU-T
There was no report.

11c. ITU-R
J.Ragsdale provided a brief verbal report. It was noted that a few of the columns on the spreadsheet of transposed standards historicaly submitted to WP5D for M.1457 updates proved problematic during the consolidation of the information by the ITU-R SG5 Counselor and are no longer needed.

Action TR45/2013-09-09
J.Ragsdale agreed to provided a sample of the streamlined spreadsheet to O.Pearson.

Action TR45/2013-09-10
O.Pearson agreed to work directly with the ITU-R SG5 Counselor (S. Buonomo) to confirm what columns are needed in the spreadsheet of transposed standards for updates to M.1457.

11d. CITEL
There was no report.

11e. Wireless Communication Division (WCD)
There was no report.

11f. TIA
Document .36 that contains information regarding TIA Cybersecurity Working Group activities was provided for information.

- **TIA Engineering Manual**
  The TIA TSSC provided a preview and overview as well as a diff-marked version of the upcoming 6th Edition of the TIA Engineering Manual. In general, the Manual will be revised into two separate documents. The Engineering Manual will focus on compliance with ANSI Essential Requirements and the Operations Manual will focus on TIA requirements, procedures and policies. Plans are for final review and comments in early October 2013 with TSSC and TC approval in late October 2013. Documents .25 and .26 were provided for information.

  Action TR45/2013-09-11
  Documents .25 and .26 were remanded to the Subcommittees for information and comments, if any. Comments should be provided directly to the TIA Engineering Manual Ad Hoc Group by early October 2013.

- **Standards Developer Watch List**
  It was noted that the TIA TSSC is interested in identifying TIA projects that potentially overlap with projects undertaken by other standard or industry groups. TIA TSSC provided a draft table, in document

.27, that contains lists of standard and industry groups associated with each Engineering Committee and requested updates, if any. Document .27r2 contains additional industry and standards groups with associations with TR-45. There were no objections to the Chair sharing document .27r2 with TIA in response to the request. The ANSI Standards Action Newsletter, in document .28, was provided for information only.

Action TR45/2013-09-12
The Chair will provide document .27r2 to TIA in response to the "Standards Developer Watch List" request.

- **All New TIA Projects and Scopes**
  It was noted that TIA TSSC is interested in identifying any potential overlaps of new TIA projects and scopes. A list of all new TIA projects and scopes was provided in document .29 for information for consideration for potential overlaps. Note, TIA plans to update the list to include the Project Numbers and the updated list will be made available on the TIA website dashboard.

  Action TR45/2013-09-13
  Document .29 was remanded to the Subcommittees for review and to identify any non-TR-45 projects where there maybe potential overlaps, opportunities for harmonization, or concerns, if any.

- **TSSC and TC Meeting Reports**
  The report of the last TIA TSSC meeting held on Thursday 18 July 2013 was provided for information in document .30. The report of the last TIA TC meeting held on Tuesday 30 July 2013 was provided for information in document .31. The TR-45 report to the TSSC was provided for information in document .32. The next TSSC meeting is scheduled for Tuesday 22 October at 2:00pm ET. The next TC meeting is scheduled for Thursday 24 October at 11:30am ET.

11g. 3GPP2

It was noted that the next 3GPP2 TSG and SC/OP meetings are scheduled for 9-13 and 15-16 September 2013, respectively, in Guilin, China. It was noted that 3GPP2 sponsored a two hour cdma2000 technology webinar on Wednesday 19 June 2013 directed at the needs of operators in the 450 MHz band in Europe. A link to hear the entire webinar is available on the 3GPP2 website at http://www.3gpp2.org/Public_html/SC/techweb.cfm. In addition, the webinar presentations are available for download from the 3GPP2 website.

11h. 3GPP

There was no report.

11i. ATIS

There was no report.

11j. IFAST

On behalf of E.Hall, G.Pellegrino presented document .10, the IFAST liaison report, for information. Document .05a was re-introduced. Questions were raised regarding the catalyst for the correspondence and if there were any actions required of TR-45 or its subcommittees. Plus there was a concern that the correspondence was not addressed to TR-45 or its subcommittees.

12. Review Assignments

The assignments are provided and numbered as "Action TR45/2013-09-xx" throughout the meeting report.

13. Review Meeting Schedules

13a. TR-45 2013 Schedule

Documents .13 and .08 were provided for information.

Action TR45/2013-09-14
TIA (S.Montgomery) agreed to verify the sleeping room block for the December 2014 TR-45 meeting.

Action TR45/2013-09-15
The Chair will post the December 2014 TR-45 meeting notice on the TIA website.

13b. Subcommittee 2013 Schedules
It was noted that the Subcommittees' 2013 schedules were provided in documents .03, .05, and .06.

13c. TR-45 2014 Schedule
Document .14r1 was provided for information. At was agreed that the location of the June 2014 TR-45 meeting (i.e., face-to-face or conference call) would be determined during the March 2014 TR-45 meeting based on the projeted work of the Committee.

14. Open Discussion
There was discussion about the usage of the shared TR-45 GoToMeeting account. A problem with overlapping meetings was raised. GoToMeeting does not support simultaneous meetings on the same account. The cause of the overlapping meetings was identified as the inability to view existing reoccurring meetings when a new meeting is scheduled. To address this problem, TR-45 has requested that all users of the shared TR-45 GoToMeeting account no longer schedule reoccurring meetings, starting 01 October 2013, and schedule each meeting separately.

Action TR45/2013-09-16
TIA (S.Montgomery) will continue to work with the TR-45.WGMS Chair to schedule its bi-weekly GoToMeetings.

15. Adjournment
Having concluded the meeting's deliberations, a motion was made to adjourn the meeting. The meeting was conducted in accordance with the TIA Engineering Manual and TIA Legal Guide and was adjourned at approximately 11:15am local time 05 September 2013.

Jane C. Brownley
Chair
Engineering Committee TR-45