



Approved by General Counsel

TR-45 Meeting Report

Date(s): 09/02/2015 - 09/03/2015

Location: Arlington, VA

Approved: 11/02/2015

Telecommunication Industry Association (TIA)
TR-45 Committee
Mobile & Personal Communications Standards
Report of Meeting
02 September 2015

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1. Call to Order & Opening Remarks

The TR-45 Committee was convened on 02 September 2015 at TIA Headquarters at 9:00 AM eastern time. M. Lipford/Vice Chair called the meeting to order and welcomed the TR-45 membership to the meeting.

2. Important Notice of Participation

The Vice 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 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	O. Pearson	X	X
2. IFAST	D. Crowe	X	X
3. CommFlow Resources	G. Pellegrino	X	X

4. Ericsson	J. Ragsdale	X	X
5. Qualcomm	D. Ott	X	X
6. Sprint	M. Lipford	X	X

Quorum List – Members Absent			
Member	Representative	Attendance	
		Last	Prior
7. Cellular Network Perspective		X	
8. Cisco	F. O' Brien		

[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. TIA	S. Montgomery
2. TIA	R. Marrow
3. TIA	V. Mitchell

4. Agenda Review & Approval

A motion was made by Qualcomm and seconded by ALU to approve the meeting agenda provided in document .01R2. The motion passed with no objections.

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. Call for Nominations of TR45 Chair

The Vice Chair notified the members that the TR45 Chair, J. Brownley has resigned due to retirement from Alcatel Lucent. The Vice Chair also indicated that a call for nominations for Chair will be issued and members are encouraged to consider the opportunity. Vice Chair also informed the committee that he would not be able to continue as Vice Chair or Chair due to company decisions.

7. 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.

TR45/15.09.02.00-R1	Submission & Contribution Assignment List	M. Lipford Vice Chair	7
TR45/15.09.02.01-R2	Meeting Agenda	M. Lipford Vice Chair	4
TR45/15.09.02.02-R1	TR-45 Meeting Report of 12 March 2014	M. Lipford Vice Chair	8
TR45/15.09.02.03	ITU-R Report	J.Ragsdale	11c

TR45/15.09.02.04	TR-45.5 Report	O. Pearson Chair TR-45.	8b
TR45/15.09.02.05	TR-45.8 Report	D. Crowe Chair TR-45.8	8c
TR45/15.09.02.06	Vacant		
TR45/15.09.02.07, a, b	EUMAG Report	G.Pellegrino	8e
TR45/15.09.02.08	Vacant		
TR45/15.09.02.09	Vacant		
TR45/15.09.02.10	IFAST Report	E. Hall	11i
TR45/15.09.02.11	2015 Meeting Schedule	M. Lipford V-Chair	13a

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2 **8. Review of Meeting Report from Previous Meetings**

3 The TR-45 Committee 04 March 2015 meeting report numbered TR45/15.09.02.02 was provided. The
4 meeting report was approved with no objections.

5
6 **9. Reports**

7
8 **9a. TR-45.3 Subcommittee**

9 J.Ragsdale presented a verbal report for TR-45.3 there had been no meeting since the last TR45 meeting
10 and were awaiting notification of ANS to TIA only standards

11
12 **9b. TR-45.5 Subcommittee**

13 O. Pearson presented document .04R1 as the TR-45.5 report to TR-45 for information. T45.5 had
14 submitted a liaison to ITU-R WP5D regarding updates to M.1457-12 to revision 13.

15 TR45.5 approved the following documents for publication:

- 16 a. TIA-1185.300, PN-3-0386.300. Upper Layers for cdma2000 Extended Cell High Rate Packet Data
17 Air Interface Specification.
- 18 b. TIA-PN-1030-F, TIA-1030-F. Band Class Specification for cdma2000 Spread Spectrum Systems.
- 19 c. TIA-PN-4959-A, TIA-4959-A. Recommended Minimum Performance Standards for Extended Cell
20 cdma2000 High Rate Packet Data Access Terminal.

21 The following document are in TIA Legal Review:

- 22 a. TIA-1185.100, PN-3-0386.100. Introduction to cdma2000 Extended Cell High Rate Packet Data.
23 TR-45.5 responded to TIA regarding their comments on the Introduction to cdma2000 Extended
24 Cell High Rate Packet Data standard, resulting in no changes on this document. Comments
25 addressed.
- 26 b. TIA-1185.300, PN-3-0386.300. Upper Layers for cdma2000 Extended Cell High Rate Packet Data
27 Air Interface Specification. The Sub-Committee is still reviewing this document.
- 28 c. TIA-PN-1030-F, TIA-1030-F. Band Class Specification for cdma2000 Spread Spectrum Systems.
- 29 d. TIA-PN-4959-A, TIA-4959-A. Recommended Minimum Performance Standards for Extended Cell
30 cdma2000 High Rate Packet Data Access Terminal.

31 Remaining work in TR-45.5:

- 32 a. Open action items (TIA-1185.300) from TIA Legal which should be addressed during the
33 September 16, 2015 plenary session.

- 1 b. TIA-PN-1030-F, TIA-1030-F. Band Class Specification for cdma2000 Spread Spectrum Systems.
 2 c. TIA-PN-4959-A, TIA-4959-A. Recommended Minimum Performance Standards for Extended Cell
 3 cdma2000 High Rate Packet Data Access Terminal.
 4 d. Open ITU related action items.
 5

6 **9c. TR-45.8 Subcommittee**

7 D.Crowe presented document .05 as the TR-45.8 report to TR-45 for information.

8 Dr. Frankle Zhao (ZTE) was elected vice-chair of TR-45.8 by acclamation on June 29, 2015.

9 TIA staff has been working to re-assign all former TR-45.2 and TR-45.6 documents to TR-45.8 for
 10 maintenance. This was expected to be complete by the September 2012 TR-45 meeting. A status update
 11 is requested from TIA.

12 The majority of the work in TR45.8 is with the LIG AdHoc, which is continuing to deliberate toward
 13 developing the new TIA-PN-4986.
 14

15 **9d. Ad Hoc on Authentication Group (AHAG)**

16 No report provided.
 17

18 **9e. AHG on ESN/UIM/MEID (EUMAG)**

19 Documents .07/.07a/.07b were provided by G.Pellegrino as the TR-45 ESN/UIM/MEID Ad Hoc Group
 20 (EUMAG) report to TR-45 for information. Since the June TR45 Committee meeting the AHG held
 21 three conference calls to progress the work on ESN &UIM_ID Designation and MEID Implementation.

22 The AHG requested approval of Version 2.2 of the ESN Guidelines (.07a) and
 23 version 2.2 of the GHA Assignment Guidelines (.07b). Both were approved without objection.
 24

25 **9f. J-STD-025 Series Report**

26 There was nothing to report, at this time.
 27

28 **9g. OID Administrators Report**

29 No report.
 30

31 **9h. TR-45 Working Group on Microwave Systems**

32 Document .12 was provided to the Committee on the current status of the work in the Microwave
 33 Systems sub-committee. The following are the areas of interest and their status within the sub-
 34 committee:

35 Current Areas of Interest:

36 A) Automatic transmit power control (ATPC) - Tom Willis

37 B) Analog systems update - Will Perkins

38 C) Digital systems update - George Kizer

39 D) Short and long term objectives - Will Perkins

40 E) Subject Inactive

41 F) IP-based MW radio development and deployment guidelines – George Kizer

42 G) Subject Inactive

43 H) Combine vertical and horizontal antenna discrimination - Thu Nguyen

44 I) Define T/I and C/I criteria) - Will Perkins

45 J) Define availability and quality - George Kizer

46 K) Extend current rain models - Tom Willis/George Kizer

47 L) Part 25 interference methods - Thu Nguyen

48 M) Subject Inactive

49 N) Subject Inactive

50 P) BAS Part 74 STL Coordination Standards (Brad Youngblood)
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Progress to Date:

Four study tasks (E, G, M and N) are inactive due to lack of contributions. All other tasks have been quite active. All tasks except A, C and I are finished. Tasks C and I are expected to be completed shortly. Task A remains quite challenging. The main Task A issues revolve around modeling rain cells.

It was noted that the current document, TSB-10-F (Interference Criteria for Microwave Systems), will be upgraded to a TIA standard and will be numbered TIA-10-G.

- While the development schedule is currently unknown, December is being targeted for balloting
- Project request needs to be created. (Published document number will be TIA-10-G).
 - Once the meeting summary is received, Ronda will submit the Project request

A motion was made and duly seconded to open a project for TSB 10-F (Interference Criteria for Microwave Systems).

10. Old Business

- a. Updates to Recommendation ITU-R M.1457 to Revision 13 Dropping out old revisions. Last 5D meeting the x+1 was received from all but IEEE, Option for meeting X+2, meeting 2a or 2b for CDMA input.
- b. Input towards the Preliminary Draft New ITU-R Report on the Smart Grid Report (SG1 published a report June2015), Liaison sent asking for feedback and has been received by TR45.5 and will be reviewed at Sept meeting.

11. New Business

TIA has requested their membership to provide feedback on a need to maintain the ITU-D sector membership. Should TIA be a sector member, if so in which group? No action needed, but input needed by mid-Sept.

12. Liaison Reports**11a. CTIA**

G.Pelligino to reach out to CTIA to get a new liaison POC.

11b. ITU-T

There was no report.

11c. ITU-R

J.Ragsdale provided document .03 as a written report for information.

11d. CITEL

There was no report.

11e. TIA

- TIA Style Manual - completed/approved, on website, Engineering Operating Procedures need to include IPR statement in notes, and state that attendees were advised.
- Stephanie will be passing off TR45 role to Vicky and Ronda.
- TIA and 5G - Working on a strategic plan/Vision/Mission Statement going into Board in November meeting. Still investigating 5G, more work in looking at 5G, should TR45 have a position?
- Group of TIA events will be distributed to group (Steph).
- Planning on MWC doing a joint panel on oneM2M

11f. 3GPP2

- TIA delegation meeting later this month to discuss SC chair and head of delegation (Ed/Jack will be HoD)

11g. 3GPP

There was no report.

11h. ATIS

There was no report.

11i. IFAST

E.Hall presented document .10, the IFAST liaison report, for information.

12. Review of Open Assignments and Actions

Action	Description	Status
TR45/2015-03-01	TIA staff agreed to take administrative action to withdrawal the TR-45.3 American National Standards (ANS) and move the TR-45.3 ANS to TIA standards. It was noted that no action is required relative to TR-45.3 TIA standards.	Work In progress
TR45/2015-03-05	TIA staff will upload the revised TR-45.5scope and charter to the TIA website and remove TR-45.4 scope and charter.	Pending
TR45/2015-03-06	The Chair will work with TIA to provide a plaque of appreciation to F.Quick on behalf of TR-45. Update (Mark to reach out to Simon (ALU) for plaque language, Steph to send example)	Open
TR45/2015-03-07	The Chair will request that the Working Group provide a draft of the standard at the next TR-45 meeting in June 2015.	Open
TR45/2015-03-08	The Chair will request that the formulating committee and the Working Group conduct a Verification & Validation (V&V) review of the completed document prior to formulating group consideration for approval for ANSI ballot.	Open
TR45/2015-06-01	S. Montgomery to send email calling for TR45 Chair nominations and Vice Chair	Open
TR45/2015-06-02	Vice Chair to work with TIA on plaques for F.Quick (TR45.AHAG) and J. Brownley (TR45)	Open
TR45/2015-06-03	S. Montgomery/M. Lipford to get .doc version of Microwave document and start V&V	Open

13. Review Meeting Schedules**13a. TR-45 2015 Schedule**

Documents .11 was provided for information.

The Commttiee agreed to maintain the same meeting schedule for 2016 as follows

Wednesday March 2, 2016 – Location TBD

Wednesday June 1, 2016 – Teleconference 1PM – 4PM Eastern

Wednesday September 7, 2016 – Face-to-Face TIA Headquarters, Arlington, VA

Wednesday December 7, 2016 – Teleconference 1PM – 4PM Eastern

13b. Subcommittee 2015 Schedules

It was noted that the Subcommittees' 2015 schedules were provided in documents .03, .05, and .06.

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14. Open Discussion

None

15. Adjournment

Having concluded the meeting's deliberations, a motion was made to adjourn the meeting. This meeting was conducted in accordance with the TIA Legal Guides and the engineering procedures and was adjourned at approximately 4:00pm eastern time 03 June 2015.

Mark A. Lipford
Vice Chair
Engineering Committee TR-45