Approved by General Counsel

TR-45 Meeting Report

Date(s): 12/02/2015 - 12/02/2015

Location: Virtual (conference call, web conference, etc.)

Approved: 02/09/2016

TELECOMMUNICATIONS
INDUSTRY ASSOCIATION

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

1. Call to Order & Opening Remarks
The TR-45 Committee was convened on 02 December 2015 at 1:00 PM eastern time via teleconference. 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.

Important Notice for Participation
Participation in, or attendance at, any activity of a TIA Formulating Group or any sub
-element thereof, constitutes acceptance of and agreement to be bound by all provisions of TIA Standards Development Procedures and permission that all communications and statements, oral or written, or other information disclosed or presented, and any translation or derivative thereof, may without compensation, and to the extent such participant or attendee may legally and freely grant such copyright rights, be distributed, published, and posted on TIA's web site, in whole or in part, on a non-exclusive basis by TIA or TIA's licensees or assignees, or as TIA directs. Exceptions to the foregoing may be granted or permitted in writing to the Chair of the Formulating Group by the head of the TIA Standards Department on a case-by-case basis.

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**	
1. Alcatel-Lucent	O. Pearson	X	X
2. CommFlow Resources	G. Pellegrino	X	X
3. IFAST	D. Crowe	X	X
4. Qualcomm	D. Ott	X	X
5. Sprint	M. Lipford	X	X

Cellular Network Perspective was absent for the second time, they will be removed from Quoum for the next meeting.
Ericsson was absent from this meeting, but this is the first absence so they will remain part of the Quorum for the next meeting.

Quorum list includes: Alcatel-Lucent, CommFloe Resources, Ericsson, IFAST, and Qualcomm. Note that Sprint is a current Quorum member but indicated they will discontinue their membership in 2016 so they will be removed from Quorum.

Others Present	
Member	**Representative**
1. TIA	S. Montgomery
2. TIA	V. Mitchell
3. TIA	Ronda Marrow

4.   Agenda Review & Approval

The meeting Agenda was introduced in document 151202-01-R2. G. Pellegrino motioned for approval and O. Pearson seconded. The agenda was approved without comment.

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.

> **INTELLECTUAL PROPERTY RIGHTS (early disclosure policy)**
>
> "TIA has an Intellectual Property Rights (IPR) Policy. We call to the attention of participants and attendees that TIA's Policy is to encourage, but not require, the voluntary disclosure (preferably early) of Essential Patent(s) and published pending patent application(s) that maybe essential to the practice of a TIA Publication. Such disclosures are to be made following the procedures of the TIA Intellectual Property Rights Policy. Additional information can be found in the TIA Intellectual Property Rights Guidelines."

6.   Call for Nominations of TR45 Chair

The Vice Chair raised the issue of needing both a Chair and a Vice Chair for the group. There is a provisional candidate for Vice Chair (Mr. David Crowe), but it is conditional on having a functioning Chair for the group. M. Lipford indicated that he would be unable to continue in any capacity due to Sprint's decision to discontinue their membership in 2016 due to changes in business direction.

7.   Introduction of Submissions and Contributions and Numbering

The following documents were numbered and assigned accordingly.

TR45/15.12.02.00	Submission & Contribution Assignment List	M. Lipford Vice Chair	7	
TR45/15.12.02.01	Meeting Agenda	M. Lipford Vice Chair	4	
TR45/15.12.02.02	TR-45 Meeting Report of September 2, 2015	M. Lipford Vice Chair	8	
TR45/15.12.02.03	TR-45.5 Report	O. Pearson Chair	9B	
TR45/15.12.02.04	TR-45.8 Report	D. Crowe Chair TR-45.	9c	
TR45/15.12.02.05/ 5a	EUMAG Report	G.Pellegrino Chair	9e	
TR45/15.12.02.06	Vacant			
TR45/15.12.02.07				
TR45/15.12.02.08	WG on Microwave Systems Report	G. Kizer	9h	
TR45/15.12.02.09	IFAST Report	E. Hall	12i	
TR45/15.12.02.10	ITU Report	J. Ragsdale	12b	

8.   Review of Meeting Report from Previous Meetings

The TR-45 Committee 02 September 2015 meeting report numbered TR45/151202-02 was provided. The meeting report was approved with no objections. G. Pellegrino motioned, D. Crowe seconded.

9.   Reports

9a. TR-45.3 Subcommittee

No Report was provided, no discussion, Chair was absent from the meeting.

9b.   TR-45.5 Subcommittee

TR45.5 Subcommittee Report was provided in document TR45/151202-03

The Subcommittee has decided to NOT remove any documents from Recommendation M.1457 at this time.

Nothing has been sent to ITU since the last meeting and the report included a table of deliverables and timelines for reference.

The TR-45.5 Chair noted that 3GPP2 has made the decision to cancel the update to C.S0097-A (TIA-1184-A) work item.

The Subcommittee did have three documents published:

a. TIA-1185.300, PN-3-0386.300. Upper Layers for cdma2000 Extended Cell High Rate Packet Data Air Interface Specification.

b. TIA-PN-1030-F, TIA-1030-F. Band Class Specification for cdma2000 Spread Spectrum Systems.

c. TIA-PN-4959-A, TIA-4959-A. Recommended Minimum Performance Standards for Extended Cell cdma2000 High Rate Packet Data Access Terminal.

The Subcommittee is in the process of determining if there are any open work items or documents to be addressed.

9c. TR-45.8 Subcommittee

TR45.8 Subcommittee report was presented in document TR45/151202-04

Only open action item is the TIA Staff is continuing to work to reassign TR45.2 and TR45.6 documents to TR45.8.

Only active work currently in the Subcommittee is the work of the LIG AdHoc group. They are continuing the development of the next revision of TIA-PN 4986, they are updating TIA-1066 and TIA-1072, and are continuing to work with ATIS on J-STD-025.

9d.   Ad Hoc on Authentication Group (AHAG)

No report provided

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

EUMAG Report was provided in document TR45/151202-05/5a

Since the last TR45 Committee meeting the EUMAG group has held two (2) teleconference meetings.

The Numbering Resource documents are provided to TIA and are available on the TIA Website at http://www.tiaonline.org/standards/numbering-resources/electronic-serial-numbers-esn-and-meid

AND http://www.tiaonline.org/standards/numbering-resources/mobile-equipment-identifiers-meid.

The TIA MEID GHA (Global Hexadecimal Administrator) Assignment Guideline and Procedures (TR45/151202-05a) is posted on the TIA website and is based on the same version published by 3GPP2 SC.R4002-0.

Brief Verbal reports on MEID and ESN/UIM_ID were given. It was recommended to remove the ESN and UIM_ID from future agenda items.

9f. J-STD-025 Series Report

There was nothing to report, at this time.

9g.   OID Administrators Report

No report.

9h.   TR-45 Working Group on Microwave Systems

The report for the Microwave Systems Subcommittee was provided in document TR45/151202-08

Good progress has been made on the current areas of interest, only items A and C remain open.

Current Areas of Interest:
A) Automatic transmit power control (ATPC) - Tom Willis
B) Analog systems update - Will Perkins
C) Digital systems update - George Kizer
D) Short and long term objectives - Will Perkins
E) Subject Inactive
F) IP-based MW radio development and deployment guidelines – George Kizer
G) Subject Inactive
H) Combine vertical and horizontal antenna discrimination - Thu Nguyen
I) Define T/I and C/I criteria) - Will Perkins
J) Define availability and quality - George Kizer
K) Extend current rain models - Tom Willis/George Kizer
L) Part 25 interference methods - Thu Nguyen
M) Subject Inactive
N) Subject Inactive
P) BAS Part 74 STL Coordination Standards (Brad Youngblood)

The draft documents are expected to start the ballot process by end of Q1-2016.

10. Old Business
None

11. New Business
None

12. Liaison Reports

11a. CTIA
There was no report.

11b. ITU-T
There was no report.

11c. ITU-R
Report was provided in document TR45/151202-10. It was reviewed without presentation and there were no comments.

11d. CITEL
There was no report.

11e. TIA

S. Montgomery indicated the TIA Board will distribute the strategic plan for TIA in January 2016 for review.

11f. 3GPP2
There was no report.

11g. 3GPP
There was no report.

11h. ATIS

There was no report.

11i. IFAST

IFAST provided their liaison report in document TR45/151202-09.

The document was presented by D. Crowe.

It provided an overview of their work. There were no TR45 actions requested and no comments or discussion by the TR45 Committee.

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.	COMPLETED
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.	COMPLETED
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 langauage, Steph to send example)	ON-Going
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	COMPLETED
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 2016 Schedule

Leadership meeting is scheduled for 11January 2016 from 1:00 – 3:00pm (ET) to discuss 2016 meetings and organization.

The following TR-45 meetings have been scheduled:
- 3/2 - Teleconference
- 6/1 - Teleconference
- 9/7 - TIA Office (first day of CTIA) - need to reschedule
- 12/7 - Teleconference

13b. Subcommittee 2016 Schedules

It was noted that the Subcommittees' 2016 schedules were provided in documents .03, .05, and .06.

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 TIA Engineering Procedures and was adjourned.

> Mark A. Lipford
> Vice Chair
> Engineering Committee TR-45