

**Approved by General Counsel**

TR-45 Meeting Report

Date(s): 03/12/2014 - 03/13/2014

Location: San Diego, CA

Approved: 04/10/2014

**Telecommunication Industry Association (TIA)**  
**TR-45 Committee**  
**Mobile & Personal Communications Standards**  
**Report of Meeting**  
**12 March 2014**

**1. Call to Order & Opening Remarks**

The TR-45 Committee was convened on 12 March 2014 at the Qualcomm Offices in San Diego, CA at 1:05 PM local time. J.Brownley/Chair called the meeting to order, thanked Qualcomm for hosting the meeting at its facility and welcomed the TR-45 membership to San Diego, CA.

**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 [tiaonline.org](http://tiaonline.org) and attendance was recorded as indicated by the quorum information provided below. Quorum was established.

<b>Quorum List – Members Present</b>			
<b>Member</b>	<b>Representative</b>	<b>Attendance</b>	
		<b>Last</b>	<b>Prior</b>
1. Alcatel-Lucent	J. Brownley	X	X
2. CDMA Development Group	D. Crowe (virtual)	X	
3. CommFlow Resources	G. Pellegrino	X	X
4. Ericsson	J. Ragsdale	X	X
5. LG Electronics	S. Kim		
6. Qualcomm, Inc	F. Quick	X	X
7. Sprint	M. Lipford (virtual)	X	X

<b>Quorum List – Members Absent</b>			
<b>Member</b>	<b>Representative</b>	<b>Attendance</b>	
		<b>Last</b>	<b>Prior</b>
8. Verizon Wireless	Z. Zhao	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.]

<b>Others Present</b>	
<b>Member</b>	<b>Representative</b>
1. Alcatel-Lucent	B. Covell (virtual)
2. Alcatel-Lucent	O. Pearson
3. TIA	S. Montgomery (virtual)

**4. Agenda Review & Approval**

A motion was made by G.Pellegrino 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/2014mar](http://ftp.tiaonline.org/TR-45/TR-45_MAIN/WORKING/2014mar).

#### 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
TR45/14.03.12.00r3	Submission & Contribution Assignment List	J.Brownley Chair	6
TR45/14.03.12.01r3	Meeting Agenda	J.Brownley Chair	4
TR45/14.03.12.02r1	TR-45 Meeting Report of 9 December 2013	J.Brownley Chair	7
TR45/14.03.12.03	TR-45.3 Report	J. Ragsdale Acting Chair	8a, 13b
TR45/14.03.12.04	TR-45.4 Report	D. Ott Chair TR-45.4	8b, 13b
TR45/14.03.12.05	TR-45.5 Report	O. Pearson Chair TR-45.5	8c, 13b
TR45/14.03.12.06	TIA Committee Leadership Procedures	TIA TSSC	11f
TR45/14.03.12.07	AHAG Report	F.Quick Chair AHAG	8e
TR45/14.03.12.08/a/b	TR-45.5 Comments on ITU-R WP5D LS on M.2039-2 "Characteristics of Terrestrial IMT-2000 Systems for Frequency Sharing/Interference Analyses	O. Pearson Chair TR-45.5	9a
TR45/14.03.12.09/a	AHG on ESN/UIM/MEID Report	G. Pellegrino Chair AHG on ESN/UIM/MEID	8g
TR45/14.03.12.10	IFAST Liaison Report	E. Hall IFAST Liaison	11j
TR45/14.03.12.11	Email between TR-45.5 and ITU-R WP5D on Comments on Report M.2039-2	O. Pearson Chair TR-45.5	9a
TR45/14.03.12.12	MEID Administrator's Report	J. Derr MEID Administrator	8g
TR45/14.03.12.13/a	GSC Task Force Report on Emergency Communication	C. Bonardi Chair, GSC-EM TF	10a
TR45/14.03.12.14	TR-45 Meeting Schedule for 2014	J.Brownley Chair	13a
TR45/14.03.12.15	TR-45 Working Group on Microwave Systems Report	G. Kizer Chair WG on Microwave Systems	8j
TR45/14.03.12.16	OID Administration Report	G. Pellegrino Chair AHG on ESN/UIM/MEID	8h

TR45/14.03.12.17	TIA Engineering Committee Operating Procedures (ECOP)	TIA TC	11f
TR45/14.03.12.18	ITU-R Liaison Report	J. Ragsdale ITU-R Liaison	11c
TR45/14.03.12.19	Liaison Statement from ITU-R WP5D on Technical Feasibility of IMT in the Bands Above 6 GHz	S. Buonomo Counselor ITU-R SG5	10b
TR45/14.03.12.20/ a	TIA Technology Standards Organization Announcement	H. Congdon TIA	11f
TR45/14.03.12.21	Liaison Statement from ITU-R WP5D on Architecture and Topology of IMT Networks	S. Buonomo Counselor ITU-R SG5	10c
TR45/14.03.12.22	Draft report of the Global Standards Collaboration (GSC) Task Force on Emergency Communications – Second Phase	C. Bonardi Chair, GSC-EM TF	10a

## 7. Review of Meeting Report from Previous Meetings

The TR-45 Committee 9 December 2013 meeting report numbered TR45/14.03.12.02 was provided. The revised meeting report provided in document .02r1 will be submitted for TIA legal review. TR-45 will seek approval of the 9 December 2013 meeting report at the next TR-45 meeting in June 2014.

Action TR45/2014-03-01

The Chair will submit the revised meeting report provided in document .02r1 for TIA legal review.

## 8. Reports

### 8a. TR-45.3 Subcommittee

J.Ragsdale presented document .03 as the TR-45.3 report to TR-45 for information. It was reported that ATIS WTSC submitted the meeting X+1 input to ITU-R WP5D for TDMA-SC on behalf of TR-45.3. In addition, the TDMA-SC GCS proponents selected meeting X+2B option for submitting the final update package to the June 2014 WP5D meeting. Once again, TR-45.3 has requested that the TIA/EIA-136-36x parts be transferred to ATIS WTSC in support of TDMA-SC for 136HS Indoor. There were no objections to TR-45 making this request of TIA.

Action TR45/2014-03-02

The Chair supported by J.Ragsdale agreed to draft e-mail to TIA to formally request that the TIA/EIA-136 parts (-360, -361, -362) be transferred to ATIS WTSC in support of TDMA-SC.

### 8b. TR-45.4 Subcommittee

On behalf of D.Ott, the Chair presented document .04, the TR-45.4 report to TR-45 for information. It was reported that TR-45.4 had not met since the last Committee TR-45 meeting on 9 December 2013. Noting that during which time, there were no changes to the TR-45.4 tasks planned or completed.

### 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 (J-STD-111), it was noted that the TIA Legal comments were addressed during the default ballot and that the standard was approved for publication by TIA TR-45.5 and by ATIS WTSC. Furthermore, it was reported that working in collaboration ATIS and TIA published the standard on 10 February 2014.

### 8d. TR-45.8 Subcommittee

There was no TR-45.8 report. B.Covell noted that TR-45.8 had not met since the last Committee TR-45 meeting on 9 December 2013.

**8e. Ad Hoc on Authentication Group (AHAG)**

Document .07 was provided by F.Quick as the AHAG report to TR-45 for information. It was reported that TIA-PN-4999 “Security Framework for Binding of Access Subscription with Device(s)” has been published by TIA.

**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. TR-45 approved the “*GHA (Global Hexadecimal Administrator) Assignment Guidelines and Procedures for Mobile Equipment Identifier (MEID) and Short Form Expanded UIM Identifier (SF\_EUIMID) v10.0*”, as provided in document .09a, for TIA website update. It was reported that the OID repository has been updated with the new TIA street address. TR-45 approved the “*TIA OID (Object Identifier) Assignment Guidelines and Procedures v2.2*”, as provided in document .16, for TIA website update.

Action TR45/2013-12-03

The TIA version of the GHA\_ Guidelines\_for\_MEID will be posted on the TIA website.

Action TR45/2013-12-04

The TIA\_OID\_Administration\_Guidelines\_v2.2 will be posted on the TIA website.

- **MEID Administrator’s Report**

*Chair’s Note, though not presented during the meeting document .12 was provided and is available at [http://ftp.tiaonline.org/TR-45/TR-45\\_MAIN/WORKING/2014mar](http://ftp.tiaonline.org/TR-45/TR-45_MAIN/WORKING/2014mar).*

- **ESN and UIM\_ID Administrator’s Report**

There was no report.

**8g. J-STD-025 Series Report**

There was no report.

**8h. OID Administrators Report**

There was a brief verbal report. It was reported that administrative changes were made to the website. Document .16 was addressed during agenda item 8.f.

**8i. TR-45 Working Group on Microwave Systems**

G.Kizer provided document .15 as the TR-45 Working Group on Microwave Systems report to TR-45. It was reported that the Working Group continues its efforts toward the establishment of a new standard for microwave system design methodologies and equipment specifications and expects to have a final draft of the standard ready for consideration for ballot in September 2014.

Action TR45/2013-12-05

The Chair will ask if a working draft of the microwave systems document can be provided at the June TR-45 meeting for information. In addition, the Chair will ask the meaning of WGFM on the document .15 coversheet.

**9. Old Business**

**9a. Liaison Statement from ITU-R WP5D on Revision of Report ITU-R M.2039-2 “Characteristics of Terrestrial IMT-2000 Systems for Frequency Sharing/Interference Analyses**

ITU-R WP 5D finalized the revision of the Report ITU-R M.2039-2 on “*Characteristics of terrestrial IMT-2000 systems for frequency sharing/interference analyses*” at the February 2014 meeting of WP 5D (12-19 February 2014). At the last TR-45 meeting this LS was remanded to TR-45.5 to take action as appropriate. The TR-45.5 comments were shared with TR-45 for information. Documents .08 and .11 were provided for information.

## 10. New Business

### 10a. GSC Task Force Report on Emergency Communications

Mark Epstein of Qualcomm and Jane Brownley of Alcatel-Lucent are the TIA contacts for the GSC Task Force on Emergency Communications. Thus far, no updates have been made to the Report on Emergency Communications since GSC-17 as provided in document .22. Document .13 was provided for information.

Regarding GSC-18 and TR-45 preparations, GSC-18 is currently planned to be held July 21-23 at ETSI headquarters in Sophia Antipolis, France. With the retirement of C.Blum from TIA, M.Epstein of Qualcomm was asked by TIA to organize and lead the TIA delegation to GSC-18.

M.Epstein has shared with the former TIA delegation to GSC-17 that the GSC reform project ad hoc established at GSC-17 to look at scope, membership categories, meeting structure, meeting duration, delegation size and information sharing has not completed its work, too date. So, the planning for the July GSC-18 meeting remains unclear in some aspects. However, it was decided that the old system of high interest subject presentations would be discarded. Instead, there will be three strategic topic sessions. The choice of the three topics will be a subject of the next HOD meeting in March 2014. Each Head of Delegation (HOD) was asked to recommend topics. Since we don't know the final strategic topics or delegation size, M.Epstein has suggested that we wait until after the March HOD meeting before deciding how the TIA will contribute to this meeting, and how the TIA delegation will be formed. So far M2M and IPR have been suggested as potential strategic topics.

Action TR45/2013-12-06

Document .22 was remanded to TR-45.8 for information.

Action TR45/2013-12-07

The Chair will work with M.Epstein (TIA GSC-18 HoD) and the ATIS contacts to provide text to the GSC Task Force on Emergency Communication for inclusion to document .22 where appropriate and to indicate where input from the U.S. is not applicable.

### 10b. Liaison Statement from ITU-R WP5D on Technical Feasibility of IMT in the Bands Above 6 GHz

ITU-R Working Party 5D (WP 5D) is starting work towards a preliminary draft new Report ITU-R M.[IMT.ABOVE 6 GHz] on the technical feasibility of IMT in the bands above 6 GHz. External Organizations' comments are welcomed. The target completion date is June 2015. Document .19 was provided for information.

Action TR45/2014-03-08

Document .19 was remanded to TR-45.5 to take action as appropriate. It was noted that TR-45.5 received previously the document directly from WP5D.

### 10c. Liaison Statement from ITU-R WP5D on Architecture and Topology of IMT Networks

ITU-R Working Party 5D (WP 5D) is starting work towards a preliminary draft new Report ITU-R M.[IMT.ARCH], “Architecture and Topology of IMT Networks”. WP 5D welcomes contributions from External Organizations for inclusion in the draft Report. The deadline for contributions to the next WP 5D meeting is 1600 hours UTC on 11 June 2014. Document .21 was provided for information. It was noted that the 5D goal is to complete the document at its October 2014 meeting.

Action TR45/2014-03-09

Document .21 was remanded to TR-45.3, TR-45.4, TR-45.5 and TR-45.8 to review and provide comments to TR-45.5 (by 30 May 2014) to consolidate and respond to 5D.

## 11. Liaison Reports

### 11a. CTIA

There was no report.

### 11b. ITU-T

There was no report.

### 11c. ITU-R

J.Ragsdale provided document .18 as a written report for information.

Action TR45/2014-03-10

Document .18 was remanded to TR-45.5 for information.

### 11d. CITEL

There was no report.

### 11e. Wireless Communication Division (WCD)

There was no report.

### 11f. TIA

Document .20 was provided for information. It was noted new Committee and subgroup user names/passwords were established to access the respective ftp sites It was noted that the individual usernames/passwords remain the same for access to the "Committee Login" tools.

- **TIA Procedures for American National Standards, 1st Edition**

The new TIA Procedures for American National Standards (PANS), 1st Edition that focuses on compliance with ANSI Essential Requirements was effective 24 October 2013 and is available at <http://www.tiaonline.org/standards/manuals-ipr/tia-engineering-manual>. During the TIA TSSC, meeting held 18 February 2014, it was reported that the PANS was reviewed and approved by ANSI on 29 January 2014. Going forward updates to PANS are under the purview of the TC. Proposed updates to Annex A and Annex C of the PANS relative to the TIA IPR Policy and TIA Legal Guides were provided (TC-2014Feb25-008\_TIA\_PANS\_ANNEXC-Draft2a as contained in document .17).

- **TIA Engineering Committee Operating Procedures (ECOP)**

During the last TIA Technical Committee meeting held 25 February 2014 several documents were shared as follows:

1. A draft of the new TIA operations manual, TIA Engineering Committee Operating Procedures (ECOP), 1<sup>st</sup> Edition, was provided (TC-2014Feb25-007\_ECOP-draft8a as contained in document .17). The focus of ECOP is on TIA requirements, procedures, and policies. Going forward updates to the ECOP are under the purview of the TIA TSSC. An ECOP preview session was scheduled for Tuesday 25 March at 11am ET. The TR-45 leadership was invited to participate by the Chair.
2. A summary of the changes from the 5th Edition of the TIA Engineering Manual to the latest draft (Draft 8a) of the TIA Engineering Committee Operating Procedures (ECOP) as

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prepared by the TIA Engineering Manual Ad Hoc was provided (TC-2014Feb25-013\_Summary\_of\_Changes\_ECOP as contained in document .17).

3. The TIA Technical Committee Engineering Manual Ad Hoc Report was provided (TC-2014Feb25-009\_EngineeringManualAdHocReport-2014Feb18 as contained in document .17) A list of debated items is included in the report. Plans are to schedule a separate conference call to address the items. The report notes that review of the TIA IPR Policy and IPR Policy Guidelines document, currently under the purview of the TIA Standards and IPR Policy Committee (SIPC) project, resulted in needed updates to the Guidelines, ECOP, and PANS documents.

- Committee Leadership Procedures

During the last TIA TSSC meeting, held 18 February 2014, several documents were shared on Committee Leadership Procedures as follows and as contained in document .06.

How to Upload Meeting Agenda/Schedule/Report	TSSC-2014Feb18-010
How to Submit a New Project Request	TSSC-2014Feb18-011
How to Submit an Existing Project Request	TSSC-2014Feb18-012
How to Submit a Status Change Request	TSSC-2014Feb18-014
How to Submit a Ballot Authorization Form	TSSC-2014Feb18-013
How to Submit a Publication Authorization Form	TSSC-2014Feb18-015

Action TR45/2014-03-11

Document .06 was remanded to the Subcommittees, Ad Hoc Groups, and Working Groups for their use.

#### 11g. 3GPP2

There was no report. It was agreed to change the 3GPP2 Liaison from G.Flynn to J.Brownley.

#### 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.

### 12. Review Assignments

The assignments are provided and numbered as “Action TR45/2014-03-xx” throughout the meeting report.

### 13. Review Meeting Schedules

#### 14a. TR-45 2014 Schedule

Documents .14 was provided for information. Considering that the TIA 2014 event in Dallas, TX is scheduled the same week in June 2014 as the TR-45 meeting, it was agreed that Committee TR-45 will co-locate with the TIA event in Dallas, TX.

#### 14b. Subcommittee 2014 Schedules

It was noted that the Subcommittees’ 2014 schedules were provided in documents .03, .04, and .05.

### 14. Open Discussion

None



1  
2 **15. Adjournment**

3 Having concluded the meeting's deliberations, a motion was made to adjourn the meeting. The meeting was  
4 conducted in accordance with the TIA Procedures for American National Standards, 1st Edition (effective  
5 15 November 2013) or the TIA Engineering Manual, 5<sup>th</sup> Edition (effective October 2009) relative to ANSI  
6 or TIA standards development and was adjourned at approximately 4:00pm local time 12 March 2014.  
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10 Jane C. Brownley  
11 Chair  
12 Engineering Committee TR-45

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