# Approved by General Counsel

TR-45 Meeting Report

Date(s): 12/09/2013 - 12/10/2013

Location: Kauai, Hawaii

Approved: 04/10/2014

**Telecommunication Industry Association (TIA)**
**TR-45 Committee**
**Mobile & Personal Communications Standards**
**Report of Meeting**
**9 December 2013**

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

The TR-45 Committee was convened on 9 December 2013 at the Grand Hyatt Hotel in Koloa, HI at 1:04 PM local time. J.Brownley/Chair called the meeting to order and welcomed the TR-45 membership to Hawaii.

**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. CDMA Development Group | D. Crowe | | X |
| 3. CommFlow Resources | G. Pellegrino | X | X |
| 4. Ericsson | J. Ragsdale (virtual) | X | X |
| 5. Qualcomm, Inc | F. Quick | X | X |
| 6. Sprint | M. Lipford (virtual) | X | |

| Quorum List – Members Absent | | | |
|---|---|---|---|
| **Member** | **Representative** | **Attendance** | |
| | | **Last** | **Prior** |
| 7. LG Electronics | S. Kim | | X |
| 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.]

| Others Present | |
|---|---|
| **Member** | **Representative** |
| 1. Alcatel-Lucent | B. Covell (virtual) |
| 2. Alcatel-Lucent | O. Pearson |
| 3. Qualcomm | D. Ott (virtual) |
| 4. TIA | S. Montgomery |

**4. Agenda Review & Approval**

A motion was made by F.Quick and seconded by O.Pearson to approve the meeting agenda provided in document .01r1 as amended. The motion passed with no objections.

*Chair's Note, the meeting agenda provided in document .01r2 as amended during the course of the meeting is available at* http://ftp.tiaonline.org/TR-45/TR-45_MAIN/WORKING/2013dec.

**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 |
|---|---|---|---|
| TR45/13.12.09.00r1 | Submission & Contribution Assignment List | J.Brownley Chair | 6 |
| TR45/13.12.09.01r1 | Meeting Agenda | J.Brownley Chair | 4 |
| TR45/13.12.09.02 | TR-45 Report of 4-5 September 2013Meeting | J.Brownley Chair | 7 |
| TR45/13.12.09.03 | TR-45.3 Report | J. Ragsdale Acting Chair | 9a, 14a |
| TR45/13.12.09.04 | TR-45.4 Report | D. Ott Chair TR-45.4 | 9b, 14b |
| TR45/13.12.09.05 | TR-45.5 Report | O. Pearson Chair TR-45.5 | 9c, 14b |
| TR45/13.12.09.06/ a/b | TR-45.8 Report | B.Covell Chair TR-45.8 | 9d, 14b |
| TR45/13.12.09.07/ a/b/c | AHAG Report | F.Quick Chair AHAG | 9e |
| TR45/13.12.09.08 | Correspondence from ATIS NGIIF on MTP Priority Level in IS-41 | R. Meier, A. Hindman Co-Chairs ATIS NGIIF | 11a |
| TR45/13.12.09.09r1 /a | AHG on ESN/UIM/MEID Report | G. Pellegrino Chair AHG on ESN/UIM/MEID | 9g |
| TR45/13.12.09.10 | IFAST Liaison Report | E. Hall IFAST Liaison | 12j |
| TR45/13.12.09.11 | J-STD-025 Series – TR-45 Activity Status | G. Pellegrino Chair TR-45.8 LIG | 9h |
| TR45/13.12.09.12 | MEID Administrator's Report | J. Derr MEID Administrator | 9g |
| TR45/13.12.09.13/ a | Email from TIA to FCC on List of Air Interface Standards | S. Montgomery TIA | 10a |
| TR45/13.12.09.14 | TR-45 Meeting Schedule for 2014 | J.Brownley Chair | 14a |
| TR45/13.12.09.15 | TR-45 Working Group on Microwave Systems Report | G. Kizer Chair | 9i |
| TR45/13.12.09.16 | Email to CTIA on Briefing on CTIA Cybersecurity Activities to TIA TR-45 | J.Brownley Chair | 10b |

| TR45/13.12.09.17/ a/b | Correspondence from TR-45.5 to ITU on Liaison Statement from ITU-R WP5D on Future Technology Trends | O. Pearson Chair TR-45.5 | 10c |
|---|---|---|---|
| TR45/13.12.09.18/ a | Correspondence from TR-45.5 to ITU on Summary and Rationale on Rec. M.1457 | O. Pearson Chair TR-45.5 | 10d |
| TR45/13.12.09.19 | Correspondence from TR-45.8 to ATIS NGIIF on MTP Priority Level in IS-41 | B.Covell Chair TR-45.8 | 11a |
| TR45/13.12.09.20/ a | Liaison Statement from ITU-R WP5D on Schedule for Updating Recommendation ITU-R M.2012 to Revision 2 | S. Buonomo Counselor ITU-R SG5 | 11b |
| TR45/13.12.09.21 | Email from TIA on C.Blum Retirement from TIA | S. Montgomery TIA | 12f |
| TR45/13.12.09.22/ a | Revision of Report ITU-R M.2039-2 "Characteristics of terrestrial IMT-2000 systems for frequency sharing/interference analyses | S. Buonomo Counselor ITU-R SG5 | 11c |
| TR45/13.12.09.23 | TR-45 Report to TIA TSSC-2013Oct22-010 | J. Brownley Chair | 12f |
| TR45/13.12.09.24 | TIA New Project Lists | TIA TSSC | 12f |
| TR45/13.12.09.25 | ANSI Standards Action List & PINS Forms of Potential Interest to TR-45, TR-42 re- Distributed Antenna System (DAS) Design | TIA TSSC | 12f |
| TR45/13.12.09.26 | ANSI Standards Action List & PINS Forms of Potential Interest to TR-45 re-Wireless Power and Charging Systems | TIA TSSC | 12f |
| TR45/13.12.09.27 | TIA TSSC Meeting 2013Oct22 Report | TIA TSSC | 12f |
| TR45/13.12.09.28 | TIA Technology Workshop on Beyond 2020: A Vision of 5G Networks | S. Montgomery TIA | 12f |
| TR45/13.12.09.29 | Letter of Nomination and Support for Vice Chair of TIA TR-45 (M.Lipford) | R. Marquardt Sprint | 8 |
| TR45/13.12.09.30/ a | ANSI Standards Action 4448 – Projects of Potential Interest to TR-45 | H. Congdon TIA | 12f |
| TR45/13.12.09.31/ a | Liaison Statement from ITU-R WP5A to Review the Proposed Revisions of Recommendations ITU-R M.2015 and M.2009 re-Public Protection and Disaster Relief Systems in UHF bands | S. Buonomo Counselor ITU-R SG5 | 11d |
| TR45/13.12.09.32 | TIA Procedures for American National Standards, October 2013, 1st Edition | TIA TC | 12f |
| TR45/13.12.09.33 | Letter of Support for Chair of TR-45.5 (O.Pearson) | M. Peeters Alcatel-Lucent | 9c |
| TR45/13.12.09.34 | ITU-R Liaison Report to TR-45 | J. Ragsdale ITU-R Liaison | 12c |

**7. Review of Meeting Report from Previous Meetings**

The TR-45 Committee 4-5 September 2013 meeting report numbered TR45/13.12.09.02 was reviewed. A motion was made by G.Pellegrino and seconded by O.Pearson to approve the meeting report provided in document .02. The motion passed with no objections.

**8. TR-45 Vice-Chair Election**

By acclamation, Mark Lipford of Sprint was confirmed as the Vice-Chair of TIA Engineering Committee TR-45 for the 2014-2015 term.  Document .29 was provided for information.

9. **Reports**

**9a. TR-45.3 Subcommittee**
J.Ragsdale presented document .03 as the TR-45.3 report to TR-45 for information.

**9b. TR-45.4 Subcommittee**
D.Ott presented document .04 as the TR-45.4 report to TR-45 for information. TR-45 confirmed the election of David Ott of Qualcomm to continue to serve as the TR-45.4 Chair. It was noted that the TR-45.4 Vice-Chair position remains open.

**9c. TR-45.5 Subcommittee**
O. Pearson presented document .05 as the TR-45.5 report to TR-45 for information. TR-45 confirmed the election by acclamation of Orlett W. Pearson of Alcatel-Lucent to retain the TR-45.5 Chair position. Document .33 was provided for information. Regarding the joint ATIS/TIA Standard on Coexistence and Interference Issues in Land Mobile Systems, it was reported that the standard J-STD-111 was approved for another default ballot due to TIA legal comments. The default ballot is scheduled to close in January 2014. The expectation is that there will be no additional ballot comments to address and the joint standard will be approved for publication soon thereafter.

**9d. TR-45.8 Subcommittee**
B. Covell provided document .06 with attachments a-b as the TR-45.8 report to TR-45 for information.

Regarding JCMAS, it was reported once again 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 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 the work continues on CMRS and TCC Provider Implementation Guidelines for the Joint ATIS/TIA SMS to 911 Standard (J-STD-110).  The implementation guidelines were approved for ballot on September 19.  Ballot comment resolution was held on November 6.  The document was approved for publication as J-STD-110-01 by administrative ballot ending on November 25 and was published on November 26.

**9e. Ad Hoc on Authentication Group (AHAG)**
Document .07 was provided by F.Quick as the AHAG report to TR-45 for information. The publication ready version of TIA-4999 was provided in document .07C.

Action TR45/2013-12-01
The Chair will work with TIA to initiate an administrative ballot to seek approval for publication of TIA-4999 in January 2014 as provided in document .07C.

**9f. AHG on ESN/UIM/MEID (EUMAG)**
Document .09r1 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. It was reported that the next version of the GHA_ Guidelines_for_MEID as recommended by EUMAG were recently approved by 3GPP2 TSG-SX to provide for SC approval process. Document .09a contains the publication ready version of the Guidelines  (SX00-20131202-101EA  SC.R4002-0_v10.0_GHA_ Guidelines_for_MEID_ proposed

publication CLEAN.pdf). The Guidelines were approved by TR-45 to be transcribed to the TIA version by Editor once the 3GPP2 SC approval process is completed. There were no objections.

Action TR45/2013-12-02
The TIA version of the GHA_ Guidelines_for_MEID will be posted on the TIA website once the above mentioned conditions are met.

- **MEID Administrator's Report**
  There was not report.

- **ESN and UIM_ID Administrator's Report**
  There was no report.

**9g. J-STD-025 Series Report**
Document .11, the J-STD-025 Series TR-45 activity status table, was provided for information by G.Pellegrino.

Action TR45/2013-12-03
This standing agenda item will be renamed "J-STD-025 Series."

**9h. OID Administrators Report**
There was nothing to report.

**9i. TR-45 Working Group on Microwave Systems**
There was no report.

**10. Old Business**

**10a. FCC Request for Air Interface Standards**
Documents .13 was provided for information. It contains the TIA consolidated list of air interface standards requested by the FCC as provided by TR-45 and other TIA Engineering Committees.

**10b. Follow-up on Briefing on CTIA Cybersecurity Activities to TIA TR-45**
Documents .16 was provided for information.

**10c. Liaison Statement from ITU-R WP5D on Future Technology Trends**
Documents .17 was provided for information.

**10d. IMT-2000 CDMA-MC Updates to Recommendation M.1457**
Documents .18 was provided for information.

**11. New Business**

**11a. Correspondence from ATIS NGIIF on MTP Priority Level in IS-41**
Documents .08 and .19 were provided for information.

**11b. Liaison Statement from ITU-R WP5D on Schedule for Updating Recommendation ITU-R M.2012 to Revision 2**
ITU-R Working Party 5D (WP 5D) is starting work on the development of the Revision 2 update of Recommendation ITU-R M.2012 and provided the detailed schedule for Revision 2 of Recommendation ITU-R M.2012 "*Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-Advanced (IMT-Advanced)*".
Document .20 was provided for information.

**11c.** **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 is currently updating Report ITU-R M.2039-2 on "*Characteristics of terrestrial IMT-2000 systems for frequency sharing/interference analyses.*" The finalization of the revision is planned for the February 2014 meeting of WP 5D (12-19 February 2014). Document .22 was provided for information.

Action TR45/2013-12-04

Document .22 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.

**11d.** **Liaison Statement from ITU-R WP5A on Revision of Recommendations ITU-R M.2015 and M.2009 on Public Protection and Disaster Relief Systems in UHF Bands**

Document .31 was provided for information.

Action TR45/2013-12-05

Document .31 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.

**12. Liaison Reports**

**12a.** **CTIA**

There was no report.

**12b.** **ITU-T**

There was no report.

**12c.** **ITU-R**

J.Ragsdale provided document .34 as a written report for information. TIA was encouraged to respond to ITU-R WP5D Liaison Statements (LSs) to External Organizations (EOs) using the 5D contribution format as opposed to using correspondence format.

**12d.** **CITEL**

There was no report.

**12e.** **Wireless Communication Division (WCD)**

There was no report.

**12f.** **TIA**

Document .21 was provided for information.

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

  During the last TIA Technical Committee meeting held 24 October 2013 the new TIA manual, TIA Procedures for American National Standards (PANS), 1st Edition (effective 24 October 2013) that focuses on compliance with ANSI Essential Requirements, was approved. The PANS document is available at http://www.tiaonline.org/standards/manuals-ipr/tia-engineering-manual and provided in document .32. A preliminary draft of the new TIA Operations Manual that will focus on TIA requirements, procedures and policies will be available 1Q2014. Until the new Operations Manual is available the current 5th Edition of the TIA Engineering Manual should be used for non-ANS TIA procedures.

  Action TR45/2013-12-06

Document .32 and the link to the PANS document were remanded to the Subcommittees, Ad Hoc Groups, and Working Groups for their use.

- **ANSI Standards Action List & PINS Forms of Interest to TIA**
  TIA and TIA TSSC provided excerpts from the ANSI Standards Action List & PINS Forms of potential interest to the TIA Engineering Committees. Three items were directed to TR-45 to review to identify any potential overlaps or conflicts and to provide any replies directly back to TIA staff.
  - For TR-45, TR-42 regarding Distributed Antenna System (DAS) Design in document .25
  - For TR-45 regarding Wireless Power and Charging Systems in document .26
  - For TR-45 regarding Standard Protocol for Stream Management in Media Client Devices in document .30

  Action TR45/2013-12-07
  Documents .25, .26, and .30 were remanded to TR-45.4, TR-45.5, and TR-45.8 to review and to provide any potential overlaps or conflicts directly back to TIA staff.

- **TIA New TIA Projects and Scopes**
  TIA TSSC provided a report in document .24 of all new TIA projects and scopes for TR-45 to review and comments, if any, relative to potential conflicting or over lapping projects.

  Action TR45/2013-12-08
  Documents .24 was remanded to the Subcommittees to review and to provide any potential overlaps or conflicts directly back to TIA staff.

- **TIA TSSC and TC Meeting Reports**
  The report of the last TSSC meeting held on Thu 22 Oct 2013 was provided for information. The report of the last TC meeting held on Thu 24 Oct 2013 is not yet available. It was announced that a new TC Chair, Ton Steenman of Intel, would be in place in 2014. The TR-45 report to the TSSC was provided for information. Information provided at the TSSC and TC meetings of interest to TR-45 were addressed in the bullets items above. Documents .27 and .23 were provided for information.

- **Beyond 2020: A Vision of 5G Networks**
  Document .28 was provided for information. It was reported that there will be follow-up TIA Workshops on specific 5G subjects in 2014.

  Action TR45/2013-12-09
  TIA will provide e-mail with the 5G Workshop highlights to the TR-45 members.

**12g. 3GPP2**

There was no report. Nevertheless, it was noted that a signification number of documents were approved out of last week's 3GPP2 meeting for comment or puiblcation.

**12h. 3GPP**

There was no report.

**12i. ATIS**

There was no report.

**12j. IFAST**

On behalf of E.Hall, D.Crowe presented document .10, the IFAST liaison report, for information. All were encouraged to share any known or potential numbering conflicts with IFAST.

**13.  Review Assignments**

The assignments are provided and numbered as "Action TR45/2013-12-xx" throughout the meeting report.

**14.  Review Meeting Schedules**

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

Documents .14 was provided for information. At was reiterated that the location of the June 2014 TR-45 meeting (i.e., face-to-face or conference call) would be finalized during the March 2014 TR-45 meeting based on the projected workload of the Committee. It was noted that the TIA 2014 event in Dallas, TX maybe scheduled the same week in June 2014 as the TR-45 meeting.

**14b.  Subcommittee 2014 Schedules**

It was noted that the Subcommittees' 2014 schedules were provided in documents .03, .04, .05, and .06.

**15.  Open Discussion**

None

**16.  Adjournment**

Having concluded the meeting's deliberations, a motion was made to adjourn the meeting. The meeting was conducted in accordance with the TIA Procedures for American National Standards, 1st Edition (effective 15 November 2013) or the TIA Engineering Manual, 5th Edition (effective October 2009) relative to ANSI or TIA standards development and was adjourned at approximately 3:30pm local time 9 December 2013.

Jane C. Brownley
Chair
Engineering Committee TR-45