<u>Approved by General Counsel</u>

TR-8.19

Meeting Date(s): 4 February 2020

Location: Renaissance New Orleans Pere Marquette French Quarter
Area Hotel – New Orleans, LA

Approved: 19 February 2020

TIA Meeting Report

Organization: **TIA TR-8.19**   **Wireline Interfaces**

Presiding: Jerry Drobka, Chairman   (847) 576-3797,
                                                            jerry.drobka@Motorolasolutions.com

Date/Time: February 4, 2020   14:00 to 14:30 EDT

Location: New Orleans, LA

Important Notice for Participation: *Participation in, or attendance at, any activity of a TIA Formulating Group or any sub-element thereof, constitutes acceptance of an agreement to be bound by all provisions of the 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 TIA's Senior Vice President, Standards and Special Projects on a case-by-case basis.*

1. Call to order
The meeting was called to order at 1:34 PM local time (CST). The presiding Chair recorded the meeting notes.

2. Record attendance
A list of attendees is attached. Roll was called. A quorum was determined to be present. The attendees were advised of the Important Notice of Participation which was included the Meeting Notice/Agenda. The Chair also advised the attendees that TIA is actively seeking participation in projects from the user and general interest communities.

3. Review and approve agenda
The Chair distributed the agenda prior to this meeting. The agenda was also available in the TR-8.19 folder as *20-004 TR-8.19 Meeting Notice-Agenda Feb 2020.pdf*. Mr. Dwight Smith moved to approve the agenda as written and Mr. John Lambrou seconded the motion. The motion passed unanimously by voice vote.

4. Review and Approve Last Meeting Report
The TIA approved meeting report from TR8.19's October meeting in Charlotte was available in the TR-8.19 folder as *19-030 APPROVED - 19-030 TR8.19 Meeting Report October 2019.pdf*. Mr. Dwight Smith made a motion to approve the meeting notes and Mr. Jim Eastwood seconded the motion; there was no discussion and the motion passed unanimously by voice vote.

5. TIA IPR Policy
The TIA patent policy was read earlier in the day by Mr. John Lambrou:

"TIA's Intellectual Property Rights Policy can be found in Statements of Policy (ANNEX D) and other clauses and annexes of this document. Participants in the work of the TIA Formulating Groups are urged to review the appropriate sections. Individual participants are encouraged to notify TIA of any patent(s) or published pending patent application(s) of which they are aware that may be essential to the practice of a proposed TIA Publication, including requirements

introduced through normative references, early on in the development to reduce the possibility for delays in the development process and increase the likelihood that the proposed TIA Publication will become a Standard. However, a Patent Holder who has provided TIA with a TIA Patent Holder Statement with respect to the applicable proposed TIA Publication need not (but may elect to) identify its specific patent(s) or published pending patent application(s) that may be essential to the practice of the proposed TIA Publication in question. Patent searches are not required to comply with the TIA Intellectual Property Rights Policy."

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 may be 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."

The Chair asked the question "is there knowledge of patents, the use of which may be essential to any standard being considered here?" No IPR was identified.

6. Old Business / Status Report
The Chair provided the working group's status review using slide deck *20-007 TR-8.19 February 2020 Status Review.pptx*.

The Chair called the participants' attention to slide 3 and reviewed TR-8.19's activity since the October meeting in Charlotte. There were three working group calls which were held on November 6, December 11, and January 29. The calls were used to perform comment resolution on the draft TIA-PN-102.BACA-B-3 IWF Addendum.

a. Disposition of TIA-PN-102.BACA-B-3 ISSI Messages and Procedures for Voice Services, Mobility Management, and RFSS Capability Polling Services – Addendum 3 – Interworking with an IWF

The Chair called the participants' attention to slide 5 and indicated that this addendum adds an annex that identifies which parts of BACA-B apply when an IWF interfaces to an LMR system via the ISSI, for the features defined in Phase 1 of the JLMRLTE study. Motorola Solutions is the author of the draft addendum.

The Chair indicated that the completed draft, draft v5, was distributed November 19. The clean version was available as 19-036, the change tracking version as 19-037. The Chair indicated that Zetron had comments and they were resolved during the December 11 working group call. The comment matrix with the agreed resolutions was available as 19-032-R2. The Chair also indicated that L3Harris had comments and they were resolved during the January 29 working group call. The comment matrix with agreed resolutions was available as 20-005-R2.

The Chair indicated he expected Phase 2 of the JLMRLTE Study to be released to TR-8.19 soon, either in late February or early March. The Chair proposed to add the Phase 2 functionality to this draft addendum. Based on the January 30 JLMRLTE call, the Chair

indicated he expected Phase 2 of the JLMRLTE study to include the addition of console takeover scenarios with losing audio, and emergency alarm / cancel scenarios. The Chair then indicated that TR-8.19 would plan to publish the addendum after incorporating Phase 2 of the JLMRLTE study, while the JLMRLTE study continues to be updated with additional features. The chair indicated he expects that TR-8.19 will update the addendum as additional updates to the JLMRLTE study are provided.

b. Disposition of TIA-PN-102.BACG ISSI Messages and Procedures for Group Regrouping

The Chair called the participants' attention to slide 6 and indicated that Motorola Solutions is the editor for this draft document and no new progress has been made since October. The latest documents were available in the TR-8.19 folder. The Chair indicated that TR-8.19 is open to new contributions to progress the draft.

c. Disposition of TIA-102.CACD-D ISSI Interoperability Test Procedures for Trunked Voice Operation Involving the ISSI

The Chair called the participants' attention to slide 7 and indicated that there is an editorial board comment matrix for this document, and it was available in the TR-8.19 folder as 19-004. The matrix is for new issues identified since publication. The Chair indicated that Motorola has entered two issues which were identified based on questions from Mr. Chris Wilson.

The Chair indicated that DHS CAP previously established a comment period on the draft ISSI CSSI Interoperability Test Case CAB which references the TIA-102.CACD-D test cases. The comment period closed on July 19 and the published comment matrix shows no comments against CACD-D. The Chair the indicated he has started to draft an addendum based on the comments and expects to distribute the comment matrix and draft addendum in the March / April timeframe.

d. Document Progress Tracking

The Chair called the participants' attention to slide 8 and provided the document progress tracking update slide deck
20-008 ISSI_Wireline_and_Air_Interface_documents_progress_status_Feb_2020.pptx.

The Chair indicated that the wireline slides were changed to table format because it became cumbersome to add new documents to the "book chart".

e. Future Work Outlook

Future work in TR8.19 is expected on:
- The IWF Addendum
- 4th Edition of TIA-102.BACA (TIA-102.BACA-C)
- Group Regrouping Messages and Procedures
- Group Regrouping Addendums
- ISSI Interoperability Erratum Addendum to fix errors
- ISSI Supplementary Data Interoperability from ISSITG

7. New Business
a. Consideration of opening a project for TIA-102.BACA-C ISSI Messages and Procedures for Voice Services, Mobility Management, and RFSS Capability Polling

The Chair called the participants' attention to slide 10 and indicated this revision will incorporate the addendums TIA-102.BACA-B-1 and TIA-102.BACA-B-2 into TIA-102.BACA-B to create TIA-102.BACA-C. The Chair then indicated that Mr. Dwight Smith (EFJ) provided draft Rev01 which was distributed on January 10. A clean version was available as 20-001 and a change tracking version as 20-002. When he distributed draft Rev01, the Chair opened a comment period on 20-002 with comments due February 14. The Chair indicated he is requesting comments on whether the addendums were incorporated correctly, and any errata comments an organization wishes to submit.

Given that this work is in progress, the Chair indicated he believes it is appropriate to start a project. The Chair asked for a motion to open project TIA-102.BACA-C ISSI Messages and Procedures for Voice Services, Mobility Management, and RFSS Capability Polling Services. Mr. Dwight Smith so moved to open the project, and Mr. Glenn Shirley seconded the motion; there was no discussion and the motion passed unanimously by voice vote. The Chair took an action item to request that the project be opened.

There was no other new business.

8. Review of current Assignments
a. The Chair will request a project be started, TIA-102.BACA-C ISSI Messages and Procedures for Voice Services, Mobility Management, and RFSS Capability Polling Services.
b. Motorola Solutions is drafting the IWF Addendum, TIA-102.BACA-B-3
c. Motorola Solutions is drafting the ISSI the Group Regrouping Messages and Procedures.
d. Motorola Solutions is drafting an addendum to the ISSI Interoperability test procedures (TIA-102.CACD-D)

9. Schedule next meeting
The next face-to-face meeting will be June 9-11 in Memphis. The Chair asked for 30 minutes. TR-8.19.1 working group calls will continue as required from 10:00 am to 12:00 PM CST.

10. Adjournment

Mr. Dwight Smith made a motion to adjourn the meeting and Mr. Jim Eastwood seconded the motion. The motion passed unanimously by voice vote. The meeting was adjourned 2:00 PM local time (CST).

This meeting was conducted in accordance with the TIA Legal Guides and the engineering procedures.

Jerry Drobka, Chairman

Attendance TR8.19 February 2020

Participant	Organization	Participant	Organization
John Mistro	*APCO International*	Andy Davis	*Motorola Solutions*
Chris Wilson	*APCO International*	Jerry Drobka	*Motorola Solutions*
Tim O'Brien	*Bird Technologies*	Jim Eastwood	*Motorola Solutions*
Amy Sanvido	*Bird Technologies*	John Lambrou	*Motorola Solutions*
Jim Holthaus	*BK Technologies*	Tim Woodward	*Motorola Solutions*
Brian Heitman	*Booz Allen Hamilton*	Stephen Nichols	*PTIG*
Britany Higdon	*Booz Allen Hamilton*	Todd Summers	*SoftWright LLC*
Chris Lougee	*Compliance Testing, LLC*	John Lemmon	*State of California Public Safety Communications*
John Hardwick	*Digital Voice Systems, Inc.*	Scott Wright	*State of Connecticut Dept. of Emergency Management*
Josh Johnson	*EF Johnson Technologies*	George Crouch	*State of South Carolina*
Dwight Smith	*EF Johnson Technologies*	Christie Bielby	*TX DPS*
Doug Chapman	*Etherstack*	David Malohn	*UL*
Richard Massie	*FBI*	Geoff Spring	*University of Melbourne, Australia*
Mike Dolan	*FirstNet*	Joshua Black	*US Dept. of Homeland Security*
Chris Kindelspire	*Grundy County 911*	Jim Downes	*US Dept. of Homeland Security*
Masaaki Takahashi	*Icom America*	April O'Reilly	*US Dept. of Homeland Security*
Glenn Shirley	*InterTalk*	Sonia Kendall	*US Coast Guard*
Thomas Lampe	*ISICSB*	James Middleton	*US Coast Guard*
Chris Maiers	*ISICSB*	Brandon Diemer	*US Department of Interior*
Angelina Seay	*JVCKenwood*	Chad McAsey	*Viavi Solutions*
Mac Harltess	*L3Harris*	Randy Richmond	*Zetron*
Harry Reves	*L3Harris*		

The following shows the voting TIA member participation for previous meetings and current voting qualification. A check mark (✔) indicates the organization signed in electronically for the indicated meeting.

Voting Organizations	San Antonio, TX October 16, 2018	Mesa, AZ February 5, 2019	Des Moines, IA June 18, 2019	Charlotte, NC October 8, 2019	New Orleans, LA February 4, 2020	Qualified to Vote at Next Meeting
1.) Catalyst				✔		No
2.) BK Technologies	✔		✔	✔	✔	Yes
3.) Codan		✔	✔			Yes
4.) EF Johnson	✔	✔	✔	✔	✔	Yes
5.) Etherstack	✔	✔	✔	✔	✔	Yes
6.) FBI		✔	✔	✔	✔	Yes
7.) ICOM America	✔	✔	✔	✔	✔	Yes
8.) InterTalk	✔	✔	✔	✔	✔	Yes
9). ISICSB	✔	✔	✔	✔	✔	Yes
10.) JVCKenwood	✔	✔	✔	✔	✔	Yes
11.) L3Harris Corp.	✔	✔	✔	✔	✔	Yes
12.) Motorola Solutions	✔	✔	✔	✔	✔	Yes
13) US Coast Guard	✔	✔	✔	✔	✔	Yes
14.) US DHS / OEC	✔	✔	✔	✔	✔	Yes
15.) US Dept. of Interior	✔	✔	✔	✔	✔	Yes
16.) Zetron	✔			✔	✔	Yes

Non-Voting Organizations	San Antonio, TX October 16, 2018	Mesa, AZ February 5, 2019	Des Moines, IA June 18, 2019	Charlotte, NC October 8, 2019	New Orleans, LA February 4, 2020
APCO International	✓	✓	✓	✓	✓
Bird Technologies	✓	✓	✓		✓
Booz Allen Hamilton				✓	✓
Compliance Testing	✓				✓
CSI Telecommunications				✓	
Dailey-Wells Comm	✓				
dBSpectra	✓				
DVSI					✓
Fairfax County		✓			
FirstNet		✓		✓	✓
Grundy County 911	✓	✓	✓		✓
Harris County Central Tech Services	✓				
Iowa DPS		✓	✓		
NYSP	✓	✓	✓	✓	
PTIG	✓	✓	✓	✓	✓
Softwright	✓			✓	✓
State of California					✓
State of Connecticut				✓	✓
State of Indiana		✓			
State of South Carolina	✓		✓	✓	✓
TX DPS			✓	✓	✓
UL					✓
Univ. of Melbourne, AUS					✓
Viavi	✓			✓	✓

TR8.19 Subcommittee Correspondence Log Relevant to this meeting

18-025 ISSI Group Regrouping Messages and Procedures - Draft v4
19-004 TR-8_19_CACD_Editorial_Board.docx
19-023-R1 TR8.19 - JLMRLTE Liaison Stmt Rev02.pdf
19-025-R1 TR-8.19 FirstNet comments on 19-023.docx
19-030 APPROVED - 19-030 TR8.19 Meeting Report October 2019.pdf
19-031 TR-8.19 2019-10 Attendance Log - Next Meeting Vote Eligibilty.xlsx
19-035 Notes_TR819_Conf_Call_Nov_6.pdf
19-036 BACA-B-3 rev05 - cl.pdf
19-037 BACA-B-3 rev05 - rm.pdf
19-039-R2 Zetron comments on 19-036 BACA-B-3 rev05.docx
19-040 Notes_TR819_Conf_Call_Dec_11.pdf
20-001 102.BACA DRAFT Rev01 -cl.pdf
20-002 102.BACA-C DRAFT Rev01 -rm.docx
20-003 TR-8.19.1 Template for Comments on 20-002.docx
20-004 TR-8.19 Meeting Notice-Agenda Feb 2020.pdf
20-005-R2_TR-8.19.1 L3HarrisComments on 19-036.docx
20-006 Notes_TR819_Conf_Call_Jan_29.pdf
20-007 TR-8.19 February 2020 Status Review.pptx
20-008 ISSI_Wireline_and_Air_Interface_documents_progress_status_Feb_2020.pptx
20-009 TR8.19 February 2020 Activity Report for SC.pptx

Projects Maintained by TR8.19
(Documents superseded by newer published documents not included)

Project	Publication	Title	Date
TIA-PN-102.BACA-B	TIA-102.BACA-B	Project 25 ISSI Messages and Procedures for Voice Services, Mobility Management, and RFSS Capability Polling	November 2012
TIA-PN-102.BACA-B-1	TIA-102.BACA-B-1	Project 25 ISSI Messages and Procedures for Voice Services, Mobility Management, and RFSS Capability Polling Services Rev B Addendum 1 - Group Emergency Behaviors Addendum	July 2013
TIA-PN-102.BACA-B-2	TIA-102.BACA-B-2	ISSI Messages and Procedures for Voice Services, Mobility Management, and RFSS Capability Polling Services Rev B Addendum 2 - Erratum 1 to Fix Errors and Omissions	November 2016
TIA-PN-102.BACA-B-3	TIA-102.BACA-B-3	ISSI Messages and Procedures for Voice Services, Mobility Management, and RFSS Capability Polling Services Rev B Addendum 3 - Interworking with an IWF	Projected June 2020
PN-3-3797-RV2	TSB-102.BACC-B	Project 25 ISSI Overview Revision B	November 2011
TIA-PN-102.BACD-B	TIA-102.BACD-B	Project 25 ISSI Supplementary Data Messages and Procedures	July 2011
TIA-PN-102.BACD-B-1	TIA-102.BACD-B-1	Project 25 ISSI Supplementary Data Messages and Procedures – Addendum 1 Emergency Alarm Message Expansion	May 2017
TIA-PN-102.BACD-B-2	TIA-102.BACD-B-2	Project 25 ISSI Supplementary Data Messages and Procedures – Addendum 2 Individual Regrouping	March 2017
PN-3-0287	TIA-102.BACE	Project 25 Conventional ISSI Messages and Procedures	March 2009 Reaffirmed Jan 2013
PN-3-0372	TIA-102.BACF	Project 25 ISSI Packet Data Messages and Procedures	October 2009
TIA-PN-102.BACG	To be TIA-102.BACG	ISSI Messages and Procedures for Group Regrouping	Projected December 2020
TIA-PN-102.BADA-A	TSB-102.BADA-A	Telephone Interconnect Overview (Voice Services)	June 2012
SP-3-4624-AD1	TIA-102.BADA-1	Project 25 Telephone Interconnect Requirements and Definitions Addendum 1 – Conv Individual Calls	April 2006
PN-3-3328-RV1	TSB-102.BAFA-A	Project 25 Network Management Interface	July 1999 Reaffirmed Jan 2013
PN-3-0193	TSB-102.BAGA	Project 25 Console Subsystem Interface Overview	February 2008 Reaffirmed Jan 2013
TIA-PN-102.BAHA-A	TIA-102.BAHA-A	Project 25 Fixed Station Interface Messages and Procedures	July 2017
PN-3-0256	TIA-102.CACA	Project 25 ISSI Measurement Methods	April 2007 Reaffirmed Jan 2013

Project	Publication	Title	Date
PN-3-0256-AD1	TIA-102.CACA-1	Project 25 ISSI Measurement Methods Addendum 1 – Trunked Console ISSI	December 2008 Reaffirmed Jan 2013
PN-3-0258	TIA-102.CACB	Project 25 ISSI Performance Recommendations	April 2007 Reaffirmed Jan 2013
PN-3-0258-AD1	TIA-102.CACB-1	Project 25 ISSI Performance Recommendations Addendum 1 – Trunked Console ISSI	December 2008 Reaffirmed Jan 2013
PN-3-0299	TIA-102.CACC	Project 25 ISSI Conformance Test	January 2009
TIA-102.CACC-1	TIA-102.CACC-1	Project 25 ISSI Conformance Test – Addendum 1 – Supplementary Data	August 2011
TIA-PN-102.CACD-D	TIA-102.CACD-D	Project 25 ISSI Interoperability Test Procedures for Trunked Systems Involving the ISSI	November 2018
PN-3-0264	TIA-102.CADA	Project 25 Fixed Station Interface Conformance Test	April 2007 Reaffirmed Jan 2013