

**TELECOMMUNICATIONS INDUSTRY ASSOCIATION**  
Meeting Report  
TR-8 Mobile and Personal Private Radio Standards Committee

PRESIDING: John Oblak, Chairman  
DATE/TIME: April 4, 2001  
LOCATION: Sheraton Four Points, San Diego, CA

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1. Call to Order

The meeting was called to order at 1:20 P.M.

2. Record of Attendance, Quorum Determination

An attendance roster was circulated. A list of attendees is attached. The sign-in roster has been forwarded to TIA. A quorum was determined to be present.

3. Review of Agenda

Jim Downes made a motion to accept the agenda. The motion was seconded by Rich Frye. The motion passed.

4. Review of January 23, 2001 Meeting Report

Jim Downes made a motion to accept the January 23, 2001 meeting notes from Mesa, AZ, with the following corrections:

- Add Dominick Arcuri to the attendees
- Correct the spelling of Kark Whitbeck
- Correct the spelling of Booz, Allen and Hamilton

The motion was seconded by Don Pfohl. The amended meeting notes were approved.

5. Patent Disclosure Inquiry

The question was asked if there is knowledge of patents that may be essential to the standards being considered. None was reported.

6. Review and Status of Old Assignments

John Derr to investigate the use of a LAN – This has been accomplished. The LAN is working well for these meetings.

7. TR-8.1 Measurement Methods - John Oblak

The TIA-603-A document (PN-4231) has been posted on the TIA web site for ballot. The ballot period expires May 28, 2001. It is anticipated that comment resolution will take place at the next meeting.

There was no activity on the PTT interface document.

There has been interest expressed in developing a method of measurement for interference in the 700 MHz frequency band.

8. TR-8.3 Encryption - Eric Ziolk

John Oblak reported that the OTAR Protocol document (SP-4824) was published. Four documents, the Security Systems Overview (SP-4912), the OTAR Operational Description (SP-4910), the OTAR Conformance Test (SP-4922), and the Project 25 Block Encryption Protocol (SP-4925) are in ballot.

9. TR-8.4 Vocoder - Jim Holthaus

Jim Holthaus provided a written report. The subcommittee has reactivated to review the applicability of advanced vocoder technology. The scope of the subcommittee will probably need to be revisited.

10. TR-8.5 Data - Paul May

Jeff Anderson reported that work on the 700 MHz wideband data standard (PN-4869) is continuing. Comparisons of the submitted technology are being considered. It was reminded that the NCC has aggressive goals to have this standard complete by February 2002. It was agreed that a schedule will be developed for communication to the NCC. David Taylor agreed to report back on high speed data activity going on in TETRA II.

The SNDCP document (PN-4632-AD1) has been balloted as an ANSI addendum to the Packet Data Standard. Comment resolution has concluded, and the document has been approved for publication.

11. TR-8.6 Performance Recommendations – Al Wieczorek

Al Wieczorek provided a written report. The TIA-603-A (SP-4631) document is in ballot, as previously reported.

A revision to TIA/EIA-102.CAAB (PN-4613-RV1) is underway to add information for the 700 MHz frequency band. A review of the FCC rules was completed. It appears that a measurement method will need to be added to TIA/EIA-102.CAAA for an ACP measurement. A similar project has begun for an upgrade to TIA-603-A (PN 4231-RV1).

Work has also begun on a 2 Slot TDMA document (PN-4924) and a 4 Slot TDMA document (PN-4914). Emission requirements for the 4 Slot document have been reviewed.

#### 12. TR-8.10 Trunking Systems - Jim Holthaus

Jim Holthaus provided a written report. An addendum for Trunking Packet Data Messages for SNDCP (SP-4661-AD1) is in ballot.

It was agreed to start work on a TDMA Trunking Control Channel Messages document. Dominick Arcuri will begin drafting the document.

#### 13. TR-8.11 Antennas – Louis Meyer

Lou Meyer provided a written report. The Digitized Antenna Pattern document has undergone ballot comment review, and has been approved for publication.

The old antenna standards TIA-329B and TIA-329B-1 are over 10 years old, and have been removed from ANSI accreditation. The subcommittee voted to rescind these documents.

#### 14. TR-8.12 Two Slot TDMA Systems – Dominick Arcuri

Two working channel proposals have been discussed. User input is required at this point. A working group has been formed to review the issue. Also, information for TSB-88 on the working channel proposals has been requested from both EADS/DSN and Com-Net Ericsson.

Information for a shell standard that will be incorporated into TSB-102 has been discussed.

#### 15. TR-8.14 Four Slot TDMA Systems – Joe Galleli

The working session on TETRA documentation resulted in a number of action items. The session, however, was characterized as being very beneficial.

The Phase II work continued. A report by DVSI on vocoder compatibility has been presented.

Steve Adler asked that the following statement be included in the meeting notes:

The current TR8.14 work and process continues to be procedurally flawed. It was agreed, and is reflected in their TR8.14 scope statement, and was confirmed in their formulating meeting discussion that the Public Safety P25 4 slot TDMA work effort would be pursued on a priority basis. This has not happened. Instead, work has been directed at developing a non-public safety TDMA standard. The process is further flawed and causing delay by attempting to rely on references to documents not yet and not expected to be deliberated as TIA documents nor subject to TIA change process and procedures. I have mentioned these concerns in previous meetings but they have not been reflected in the meeting notes nor have they been acted upon. Many days, weeks and months have been wasted by the TR8.14 formulating committee's decision to not pursue the main objective of a Public Safety P25 4 slot TDMA standard.

I would further note, in contrast to the time wasting effort to endorse the TETRA ETSI documents, it would be far more efficient to follow the model used by TR46 in developing the US cellular GSM TIA standards. In that case the standards were expeditiously created by selectively taking ETSI GSM documents and using them as a model for the currently completed and enabling ANSI/TIA GSM standards. This effort avoided the unnecessary steps of reviewing unessential materials; insured correcting of normative information to US regulatory forms; and minimized the time required for development of needed normative TIA standards documents. I would urge TR8 to advise TR8.14 in this regard. TR8 should recommend that TR8.14 get on with their main mission: to formulate a P25 4 slot TDMA standard and further that they seriously consider selecting appropriate documents to become TIA normative standards for expeditious review and balloting. TR8.14 should also be advised that continuing to put primary effort on non public safety 4 slot TDMA is only further delaying the completion of the standard formally requested of TIA by Project 25.

Joe Gallelli agreed to submit a rebuttal, which is included below:

The work of TR8.14 has progressed based on the teachings and experience of TIA and other related committees and subcommittees. The mutual recognition agreement that binds TIA and ETSI, both globally recognized Standards Development Organizations, allows for a current streamlined approach to the exchange of standards documents. This "exchange" process was applied to TIA standard setting processes including TR46 and wireless T1. Ms. Anna Sillanpaa, Nokia who only recently moved on to another

assignment, was deeply involved in the TIA work related to the deployment of GSM in the USA. Mr. Chris Wallace, VP of Standards at Nokia who addressed the TR8.14 subcommittee during 2000 was deeply involved with GSM and wireless T1. The work of both TIA committees indicated that the early multiyear effort to convert ETSI GSM documents was not necessary to achieve TIA standards. The later day T1 work built on the lessons learned in GSM and consists of many ETSI normative references. The TR8.14 effort, based in TETRA could be another generation of learning to create a normative and informative managed referential process that effectively takes advantage of the standards development in the USA and the EU.

The past 9 months of work in TR8.14 could have been advanced much further with the cooperation of “all” TR8.14 participants. The recent working session conducted at TIA headquarters, Arlington, VA produced a clear understanding of the referencing process to bring the 54 Native TETRA based documents to TIA compliance. A similar effort is planned for P25 4 slot systems that will be based on the Native TETRA work and the 102 series of related documents.

The most productive way forward is not to reinvent the past but to follow the native TETRA model effort; allow the normative and informative references to flow with proper document control and benefit from the positive influences of a true TIA consensus process.

#### 16. TR-8.15 Common Air Interface - Al Wilson

The SNDCP addendum to the Reserve Values document TIA-102.BAAC-A (SP4626) has been approved for publication.

#### 17. TR-8.17 RF Exposure – Nick Buris

Bill Pagones reported that the liaison to IEEE is continuing. Also, a working group was formed to draft standards for SAR product labeling and user training. A letter to the FCC on this issue is being drafted.

#### 18. TR-8.18 Wireless Systems Interference and Compatibility - Bernie Olson

Bernie Olson reported that three projects are being worked on. The Annex to TSB-88-A (PN-4827) for contour generation methodology is being targeted for a conclusion in May. TSB-88-B (PN-4744) is awaiting manufacturers information on modulation characteristics. Also the Radio Wave Propagation Path Loss document (PN-4820) is continuing toward completion.

Bernie Olson also reported that a rebuttal to an article that appeared in “Mobile Radio Technology” is being prepared.

19. TR-8.19 Wireline Systems Interface - Jerry Drobka

There was no report given.

20. WG-8.20 International Activities – Al Wiczorek

Document No. WG 8.20/01-04-0003 has been assigned to an email letter sent to all LMCC members from Tom Keller , who represents a land mobile radio user group. It calls attention to a contribution from LEO satellite communications proponents Alan Renshaw and Ed Miller to the FCC's Informal Working Group 2 (IWG-2) for their April 17<sup>th</sup> meeting. There it will be considered for advancement by the FCC as the US position at, and contribution to, the 2003 ITU World Communications Conference (WRC-03). Tom, who can be reached at [tjkeller@verner.com](mailto:tjkeller@verner.com), encourages all LMCC members to send any objections to Mr. Renshaw, and to attend the meeting at the Leventhal Center to support their concerns.

21. New Business

Jim Downes noted that the IPPTG had forwarded the Conventional Voice interoperability document to the Steering Committee. The document was approved by APIC and the Steering Committee. The document was never delivered, however, to TR-8. It was agreed that this would be addressed at the next meeting. A project number will need to be taken out.

Don Pfohl also noted that the Audible Signaling document was not submitted to TR-8. Steve Adler agreed to do this. This will be placed on the agenda for the next meeting.

A task team was created to plan for future electronic meetings. The task team is comprised of:

- Craig Jorgensen
- John Oblak
- Steve Adler
- Tess Zagaruyka
- Jim Downes

John Oblak agreed to work with Stephanie Montgomery to get passwords for document distribution over the web site.

22. Review of New Assignments

The following is a list of the new action items:

- David Taylor to report on high speed data activity in TETRA II.

- John Oblak to open a project number for Conventional Voice Interoperability document.
- Steve Adler to submit Audio Signaling document to TR-8.
- John Oblak to work with Stephanie Montgomery on passwords for document distribution on the web.

### 23. Schedule Next Meeting

The next meeting will be held during the week of June 11, 2001 in Kansas City, MO. The plan for subsequent meetings are as follows:

- Salt Lake City – week of July 30, 2001
- Pittsburgh – week of October 1, 2001 (in conjunction with a P25 symposium)

### 24. Adjourn

Jim Downes made a motion to adjourn. This was seconded by David Taylor. The meeting was adjourned at 2:35 P.M.

This meeting was conducted in accordance with the TIA legal guides and manual of organization and procedure. The attendance roster has been filed with the TIA Engineering Department.

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John Oblak  
Chairman TR-8

<b>Name</b>	<b>Organization</b>
Art McDole	APCO
Ali Shahnam	ACD Telecom
Jim Blocker	Booz, Allen, and Hamilton
Don Vaughn	Com-Net Ericsson
Wes McCoy	ComSpace
Randall West	ComSpace
Robert Small	Daniels
Jim Potter	Datron
Hubert Azemard	EADS-DSN
Phileppe Devos	EADS-DSN
Gerard Marque-Pucheu	EADS-DSN
John Oblak	E.F. Johnson
Harrison Reves	FBI
Bill Steffy	IFR
JoAnne Dalton	M/A-Com
Daoud Serang	MX-COM
David Taylor	Marconi
Don Pfohl	Mesa, City of
Steve Adler	Motorola
Jeff Anderson	Motorola
Deb Brown	Motorola
Stan Hansen	Motorola
Rick Judson	Motorola
Wayne Leland	Motorola
Larry Nyberg	Motorola
Bernie Olson	Motorola
Bill Pagones	Motorola
Tom Rubenstein	Motorola
Jackson Chan	Nortel Networks
Mark Hoppe	North American TETRA Forum
Bill Pomper	NTIA/ITS
Eldon Haakinson	NTIA/ITS
Richard Frye	Orbacom
Craig Jorgensen	Quantum
Dominick Arcuri	RCC Consultants
Tess Zagaruyka	RELM
Joe Gallelli	Simoco
Vincent Lin	State of California
Glenn Nash	State of California
John Kelly	State of New York



Maribel Martinez  
Bob Schlieman  
Richard Brockway  
John Derr  
Jim Downes  
Kyle Sinclair

State of New York  
State of New York  
Thales  
TIA  
US Treasury  
US Treasury



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## Approved by General Counsel

TR-8 Meeting Report

Date: 04/04/01

Location: San Diego, CA

Approved: 04/26/01

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