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

PRESIDING: Alan Wilson, Vice Chairman

DATE/TIME: January 16, 2002

LOCATION: Mesa, AZ

1. Call to Order
    The chair called the meeting to order at 13:30.

2. Record of Attendance
    The chair circulated the TIA attendance rosters. A list of attendees is attached.
    The attendance rosters were forwarded to TIA. The chair did a roll call to
    determine a quorum of 16 voting members.

3. Approval of Agenda
    Bill Pomper moved to approve the agenda. Rick Judson seconded. The motion
    passed unanimously.

4. Approve Meeting Notes of October 2, 2001
    Jeff Anderson moved to approve the meeting notes. Rich Frye seconded.   The
    motion passed unanimously.

5. Identify Intellectual Property Rights
    The chair explained that the TIA patent policy is given in the Engineering
    Manual. The chair asked if anyone wanted to disclose any patents for any
    documents in TR-8. No patents were disclosed.

6. Review Status of Old Assignments
    *   TR-8.14 to bring a recommendation on whether to split into two
        subcommittees. -- TR-8.14 has shown no wish to split, see agenda item 15.
    *   John Oblak to remind the subcommittee chairs of upcoming election of
        officers for even numbered subcommittees. -- John Oblak did remind all
        subcommittees of elections.
    *   John Oblak to include the Trunking Interoperability document on the agenda
        for the next meeting. -- Jim Downes explained that the Trunking
        Interoperability document was in error. Jim said it should have been the
        OTAR document. See agenda item 21 for action on this subject.
    *   TR-8.17 to forward the EME document to the FCC through the Section. – The
        TR-8.17 document has been submitted to TIA for legal approval. Upon
        approval the document will be forwarded by Wayne Leland to the FCC.
    *   TR-8.5 to provide a progress report on wideband data to the NCC through the
        Section. -- TR-8.5 did present an update on wide band data to the NCC.

7. TR-8.1 Measurement Procedures – Terry Mansfield.
    Revision documents for the following projects were distributed.

    - TIA-603-B Methods of Measurement Revisions (PN-4231-RV1)
    - TIA-102.CAAA-A Method of Measurements (PN-4232-RV1)

    These documents incorporate changes necessary to address the requirements for the FCC 700 MHz band for analog and digital transceivers. Where applicable, PN-4232-RV1 also includes updates to a few sections to realize better alignment between the analog and digital measurement methods.

    Motorola (Kevin Mayginnes) presented a Wideband Data Methods of Measurement draft document. The document defines a suite of transceiver measurement methods for wideband data equipment. Motorola has proposed a specified reference measurement approach for the receiver methods. This approach was proposed to make the measurements more efficient due to the large number of equipment configurations that will require characterization.

    Nortel Networks (Roy McClellan) and EADS-DSN (Gerard Marque-Pucheu) presented 2 papers on 2-slot TDMA topics. The first paper addressed transient adjacent channel power during transmitter power on ramping for TDMA applications. The paper overviewed the complexities of making transient adjacent channel power measurements and made recommendations for a less complex method utilizing simpler and less expensive test equipment. The second paper was a proposal for 2-slot TDMA methods of measurement that is based on the TIA-102.CAAA document. It included methods for four tests that require modifications for TDMA applications. The remaining tests will be formulated based on the TIA-102.CAAA methods with a potential for additional modifications for TDMA applications.

    Comments on all the above noted documents are to be submitted to the chair by April 1, 2002.

    The next meeting will be scheduled to occur with the next series of TR-8 meetings the week of April 14, 2002, in Dallas, TX.

8. TR-8.3 Encryption – Richard Brockway

    - TR-8.3 met on Tuesday afternoon. Status is as follows.
    - Action on SP3-4910 (OTAR Operational Description) was deferred pending action by User Needs and IPPTG.
    - SP3-4922 (OTAR Conformance Tests) is awaiting resolution of a disapproving ballot.
    - SP3-4912 (Security Services Overview) is awaiting publication of the Block Encryption Protocol.

- SP3-4921 (Block Encryption Protocol) has been forwarded to TIA for a 30 day default ballot.
- Motorola introduced a new activity to incorporate AES into the OTAR and Encryption document suite.
- Richard Brockway (Thales) was elected chair of TR-8.3 and Mike Bright (Motorola) was elected vice-chair.

9. TR-8.4 Vocoder – Jim Holthaus
   - TR-8.4 Met on 15 January, 2002 in Mesa, AZ

   - Nortel and EADS-DSN provided a CD of the IMBE test data used in the vocoder selection process. This material was distilled from the vocoder selection process DAT tapes

   - Tyco Electronics indicated they continue to evaluate AMBE, but did not have any material available for this meeting

   - Nortel/EADS-DSN provided a 1st Draft of a Test Plan for Advanced Vocoders for 2-slot TDMA. Comments to this plan are due by 15 March, 2002.

   - Officers were elected for the 2002-2003 period:

        Chairman – Jim Holthaus
        Vice Chairman – Rich Frye

10. TR-8.5 Data – Jeff Anderson
    TR-8.5 approved a motion to forward the SAM Physical Layer PN-3-0043 with comment resolution updates to be published as TIA-902.BAAB.

    TR-8.5 approved a motion to create a high level summary of the technical differences and similarities of the SAM, IOTA and AWM/M physical layer proposals. The status of this activity shall be discussed in the next TR-8.5 meeting.

    TR-8.5 approved a motion to move forward with the Motorola conventional data registration proposal with the addition of identification of any IPR applicable to the solution.

    TR-8.5 approved a motion to go to ballot on the three addendums to add PPP and USB to the Project 25 packet data suite.

    TR-8.5 approved a motion to make a single physical layer technology selection to recommend to NCC as the wideband interoperability standard in the April meeting.

TR-8.5 received a nomination for Roy McClellan as Vice-Chair that was affirmed by Billie Zidek-Conner of TIA.

11. TR-8.6 Transceiver Performance – Al Wieczorek

PN-4024-WD (to withdraw P-25 Performance Limits interim standard)
Balloting was completed with unanimous approval to withdraw IS-102.CAAB. A motion passed confirming the withdrawal, so the project can be closed.

PN-4613-RV1 (to revise P-25 Performance Limits)
Second draft of proposal TIA/EIA-102.CAAB-1 appears sufficient to go to ballot with minor change. A ballot motion is anticipated at the April meeting. Terry Mansfield is serving as lead editor on the document.

PN-4231-RV1 (to revise analog performance limits)
No new contributions were received. It is anticipated that work to date from Tom Bohn of Motorola can be forwarded at the next meeting to TR-8.1 for integration into TIA/EIA-603-B.

PN-3-0042 (wide band data performance limits)
Motorola contributed a document based on the outline they proposed at the previous meeting. It includes proposals for small changes of ACCPR values in the FCC rules for 150KHz equipment, plus new rules for 50 and 100 kHz equipment. No other FCC changes were proposed. Kevin Mayginnes is serving as lead editor.

It is intended that all change proposals to the FCC rules will be finalized at the April meeting. The chairman will work with TIA legal staff to prepare a draft letter to issue a reply to the FCC by the end of April, per the TIA commitment. The draft will be reviewed at the next meeting.

PN-4914 (4-slot TDMA performance limits)
No contributions have been received since the inception, so this project will be closed.

PN-4924 (2-slot TDMA performance limits)
EADS made a presentation on how an adjustment needs to be made to measure ACP from TDM Transients. The adjustment uses a frequency offset dependent upon the shape factor of the measurement analyzer and filter.

Elections
For the 2002/2003 term Al Wieczorek of Motorola will serve as Chairman and Neil Leitch of Tyco will serve as Vice Chairman.

12. TR-8.10 Trunking and Conventional Control – Jim Holthaus
- TR-8.10 Met on 15 January, 2002 in Mesa, AZ.

- TR-8.10 agreed to open a PN and begin work to upgrade TSB102.AABD, *Project 25 Trunking Procedure*s, to an American National Standard.

- TR-8.10 agreed to open a PN and begin work to upgrade TSB102.AABG, *APCO Project 25 Conventional Control Message*s to an American National Standard. This effort will also address needs for conventional data registration.

- Motorola made a brief presentation on Multi-band trunking. As a result of this presentation, the committee authorized openning PNs and beginning work to review TIA/EIA-102.AABC and TSB 102.AABF for changes needed to support Multi-band trunking. As part of this effort, a working group has been chartered to conduct this review.

- Officers were elected for the 2002-2003 period:

  Chair-Jim Holthaus
  Vice-Chair-Stan Hanson

13. TR-8.11 Antennas – Lou Meyer
Did not meet this month.

14. TR-8.12 2-Slot TDMA – Dominick Arcuri
TR-8.12 held a meeting on January 16, 2002 in the morning. Work on development of documents for the 2-slot TDMA standard continued. The P25 Steering Committee has tentatively approved the 2-slot TDMA proposal from EADS, subject to their upcoming meeting on Friday.

EADS/Nortel submitted a revised version (second draft) of the Logical Channel description document and a first draft of the MAC layer document. These documents were introduced and a comment period established with a deadline of March 15, 2002. EADS also presented an update to some items related to trunking procedures. Some items were identified that require further discussion and will be addressed at the next meeting. A request was also made for input from the User Needs subcommittee, which will be formally submitted.

Dominick Arcuri was elected chairman. Ernie Hofmeister was elected vice chairman.

15. TR-8.14 4-Slot TDMA – David Taylor
TR-8.14 met on January 15. Topics included review of comments on the Public Safety Shell document, and a discussion on whether the Public Safety and Non Public Safety work activities should be split into two separate TR-8 groups. The

outcome of the discussion was that the work should not be split, and the current committee scope retained.

There have been no nominations for Chair or Vice Chair, these have been requested for the next meeting, which is scheduled for April.

16. TR-8.15 Common Air Interface – Alan Wilson
    TR-8.15 held a short meeting on Monday, January 14. Alan Wilson was elected to chair the subcommittee. There are no nominations for vice chairman and so nominations remain open.

17. TR-8.17 RF Exposure – Nick Buris
    Nick Buris gave an IEEE SCC-34 liaison report. SCC-34 WG-1 meets in January and it is expected to provide the document with standards on RF exposure measurement procedures to the full committee in February. It is hoped that the document will be approved at the next meeting being arranged in the April-May timeframe.

    A report was given by Nick Buris on the progress of the TR-8.17 WG effort to arrive at a TSB summarizing the application of the FCC standards to Land Mobile products. Three WG teleconference meetings were held since the October 2001 meeting. One WG member, Mike Ramnath, had an informal meeting with the FCC in which he received some information regarding the FCC's position on RF labels placed on products. The WG incorporated this information in the draft TSB. Currently, the TSB and an accompanying letter to the FCC are under TIA legal review for subsequent submission to the FCC for formal feedback.

18. TR-8.18 Wireless Systems Interference and Coverage – Bernie Olson
    - Approved comments on PN3-4827 and voted to Publish.
    - Presented current version of Section 7 of PN3-4744
    - Presented a proposed method of determining ACCP(R) to include compensation for frequency drift. Agreed to pursue in PN3-4744.
    - Elected officers for the next 2 years.
      - Bernie Olson - Chairman
      - Marty Barringer - Vice Chair
    - A working meeting will be scheduled for March and announced via the TIA meeting notice process.

19. TR-8.19 Wireline Systems Interface – Jerry Drobka
    TR-8.19 did not meet this month.

20. WG-8.20 International Activities – Al Wieczorek
    WG8.20 did not meet this month.

21. TR-8 Documents
Conventional Voice Interoperability – Ballot Resolution
The chair presented the comment resolutions for the letter ballot. Daoud Serang noted that MX-COM's name was misspelled. Joe Bartelme's name was also misspelled. Eldon Haakinson said he accepted the comment resolutions. Jim Downes moved to accept comment resolutions. Don Pfohl seconded. The motion was approved unanimously. Jim Holthaus moved to send the document to TIA with the revisions, seconded by Jim Downes. The motion passed unanimously.

Audio Signaling – No inputs.

OTAR Interoperability
Jim Downes said it was forwarded to John to send to ballot. Jim Holthaus made a motion to obtain a PN for the OTAR Interoperability Test document and ballot it as a TSB. Jim Downes seconded the motion. The motion passed unanimously. Alan Wilson asked Jim Downes to forward a copy to Alan Wilson so that he could follow up if John was unable to complete the task.

22. New Business
Billie put 4 documents before TR-8 to review: two press releases, draft technical committee reports, and GSC7RAST. Billie said these documents were presented to inform the committee members. Wayne Leland explained more about the documents to the committee.

The chair asked Jeff Anderson if there was any document to review in TR-8 for wide band data. Jeff asked the committee to review and approve minor changes to the slides updating the status of wide band data in TR-8. The chair invited a motion to approve the document for presentation to the NCC. Jeff Anderson made the motion. Roy McClellan seconded the motion. The motion passed unanimously.

23. Review of New Assignments
- John Oblak to revise the Conventional Voice Interoperability document with the comment resolutions and forward to TIA for publication as a TSB.
- John Oblak to send the OTAR Interoperability Test document to ballot as a TSB after obtaining a project number. Jim Downes is to forward the document to Alan Wilson to follow through in case John is unable to act.
- John Oblak presentation of TR-8.5 progress on wide band data to NCC.
- John Oblak to put the subject of Station Identification for Digital Land Mobile Radios at 150 and 450 MHz on the agenda for the next meeting.

24. Schedule Next Meeting
The next meeting is scheduled for the week starting April 15, 2002 in Dallas TX. After some discussion the committee recommended a subsequent meeting for the week starting June 10, 2002 in Boulder or Denver CO. A second choice for the June meeting was Portland OR.

25. Election of Officers

John Oblak was nominated to chair TR-8. There were no other nominations, so Billie Zidek-Conner announced that he was elected. Alan Wilson was nominated as vice chairman. There were no other nominations so Billie Zidek-Conner announced that he was elected.

26. Adjourn

Jim Downes moved to adjourn. Harrison Reves seconded. The motion passed and the meeting was adjourned at 15:04.

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.

Alan Wilson
TR-8 Vice Chairman

Attendance TR-8   **16-Jan-02**   **Mesa AZ**

Person	Company
Terry Williams	Airnet
Craig Jorgensen	APCO International
Jim Blocker	Booz, Allen & Hamilton
Stephen German	Bureau of Land Management
Don Pfohl	City of Mesa
Ron Backlund	Daniels Electronics
Joseph Arcuri	Datron World Communications
Jim Holthaus	E. F. Johnson
Hubert Azemard	EADS-DSN
Gerard Marque-Pucheu	EADS-DSN
Harrison Reves	FBI
Gary Neal	Lockheed Martin
G.R. Moore	Lockheed Martin
David Taylor	Marconi
Mehdi Nouri	Marconi
Alan Wilson	Motorola
Wayne Leland	Motorola
Steve Adler	Motorola
Bernie Olson	Motorola
Tom Rubinstein	Motorola
Larry Nyberg	Motorola
Nick Buris	Motorola
Stan Hansen	Motorola
Bill Pagones	Motorola
Jeff Anderson	Motorola
Rick Judson	Motorola
Debra Brown	Motorola
Daoud Serang	MX-COM
Bill Pomper	NCS
Roy McClellan	Nortel Networks
R.S. Bloomfield	NTIA / ITS
Rich Frye	Orbacom Systems
Devra Herlin	RELM Wireless
John DiSalvo	SAIC
Robert Schlieman	State of New York
Brian Conrad	Technisonic
Richard Brockway	Thales Communications
Billie Zidek-Conner	TIA
Robert Speidel	Tyco Electronics
Ernest Hofmeister	Tyco Electronics
Mac Hartless	Tyco Electronics
John Powell	University of California
Eldon Haakinson	US Dept of Commerce
James Downes	US Treasury Department

Steve Tucker   W-Networks
Bill Hughes   Zetron