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## **Approved by General Counsel**

TR-8.18 Meeting Report

Date: 01/18/10

Location: Mesa, AZ

Approved: 01/29/10

**TR-8.18 MEETING REPORT – Meeting # 62, 2010-1**

**ORGANIZATION:** TIA TR-8-18, WIRELESS SYSTEMS – COMPATIBILITY

**PRESIDING:** Bernie Olson, Chairman 650.593.6423  
e-mail- [cara33@motorola.com](mailto:cara33@motorola.com)

**DATE/TIME:** Mon Jan 18, 2010, 14:30 – 15:15 hours (See policy below)

**LOCATION:** Arizona Hotel and Conference Center  
Mesa, AZ,

**1. Call to Order –Designate Secretary**

The meeting was called to order at 1:50PM MST. Olson will be Secretary. Tom Rubinstein volunteered to take additional notes.

**2. IPR Statement**

At the IPR statement, there was no response.

**3. Record of Attendance –Quorum Determination**

Quorum was determined by roll call. Ten voting members were required for quorum, thirteen were present. The electronic roster is the actual determination for eligibility to vote in the next meeting. The electronic roster number was 2891. The following individuals were in attendance based on the electronic attendance roster:

**Record of Attendance**

Name	Company	Name	Company
Saben, Michael	AECOM	Wilson, Alan	Harris Corp
Zielke, Lyndon	Aeroflex	Takahashi, Masaaki	ICOM
Gandee, Craig	USAISEC	Hamilton, Gary	Midland
Burfoot, Steve	Daniels	Eastwood, Jim	Motorola
Zagaruyka, Tess	Datron	Lambrou, John	Motorola
Oblak, John	E.F. Johnson	Mansfield, Terry	Motorola
Chan, Jackson	EADS	Olson, Bernie	Motorola
Laffitte, Pascal	EADS	Rubinstein, Tom	Motorola
Marque-Pucheu, G	EADS	Senese, Tom	Motorola
McClellan, W. Roy	EADS	Tompsett, Clark	New Mexico State Police
Chapman, Doug	Etherstack	Bloomfield, Randy	NIST-OLES
Shirley, Glenn	Etherstack	Holthaus, Jim	Relm
Blocker, Jim	Federal Engineering	Devasirvatham, Daniel	SAIC
McLin, Jonathan	General Dynamics C4 Sys	Natali, Richard	Tait Radio Comm
Boyer, Adrian	Harris Corp	Brown, Kenneth	Technisonics
Elder, Jeremy	Harris Corp	Potter, Stewart	Thales
Hartless, Mac	Harris Corp	VanderStaay, David	Thales
Janky, Bill	Harris Corp	Laguardia, Julio	US Dept of Justice
Peterson, Hal	Harris Corp	Speights, Don	USDHS/FDIC (STI)
Reves, Harrison	Harris Corp	Downes, James	USDHS/FPIC

**4. Review of Agenda**

The agenda was approved with no changes.

**5. Review of Previous Meeting Report**

The October meeting report was approved with no changes.

**6. Review and Status of Old Assignments**

A PowerPoint Document, TR-8.18\_10-01-0007 was used to walk through some of the Agenda item 6

A. WG-1: PN3-4744.1-RV3-1 (TSB-88.1-C-1)

Olson presented document TR-8.18\_10-01-0001. It includes the previously published Errata information as well as new information and some minor editorial corrections.

A motion to send to ballot was unanimously approved.

B. WG1: PN3-4744.1-RV4 (TSB-88.1-D)

Olson indicated that limited information or comments were received. Correspondence with Harris on WCQPSK simulcast modulation was exchanged allowing updates to the simulcast section. This information is included in the draft document TR-8.18\_10-01-0004. The source document was corrupted in a computer crash so the current draft is a recreation. Olson recommended that members review and make recommendations for where to insert the proposed Trademark and Emission Designator clauses. Additional submissions were requested.

All the current spreadsheets have been updated to delete the F4FM Butterworth 10P-4C filter data. This allows the combining of the 25 kHz and 30 kHz plans on a single page rather than two pages. These pages will be inserted in the next draft of the "D" version. The changes in document TR-8.18\_10-01-0001 will be incorporated after balloting and publication.

C. WG-3: PN3-4744.3-RV3-1 (TSB-88.3-C-1)

Voting closed on 12/07/09. Results were presented by Olson. The results are included in document TR-8.18\_10-01-0005

A motion to publish as addendum 1 was unanimously approved.

D. WG-2: PN3-4744.2-RV3 (TSB-88.2-C)

Rubinstein reported that WG-2 is awaiting further action from ITU-R SG-3 before proposing any up-issue to TSB-88.2.

E. WG-5:

i. PN-3-0268 TSB-176  
No new activity

ii. PN-3-4820 TIA-845 -A-2  
Rubinstein reported this document was published in December

F. WG-4: PN3-4744.4-RV3 (TSB-88.4-C)

Olson indicated that a newer draft is available, TR8.18\_10-01-0009, and requested review and comments to Shapiro and Olson.

**7. Other Old Business**

None discussed

**8. New Business**

- NPSTC LPDTV input. A request for support on establishing interference criterion for LPDTV stations in the shared UHF TV band was formed. It consists of: Olson, Rubinstein and Eierman. Dave Buchanan in NPSTC will be contacting Olson to start the process
- Election of officers. Olson indicated that he will not be running for re-election and that the Vice Chair had also indicated that he will be retiring. Elections to be held in the October meeting. Nominations are open
- Al Wilson asked a question on TR-8.18\_10-01-0007, slide 3. He wanted to offer comments to the bullet, "Phase 2 vocoder and waveform impact on performance values". He indicated that the mapping of BER% to DAQ is dependent of FEC and that PESQ might not show differences that users might notice. Olson acknowledged this and indicated that he expected future values of BER% to DAQ will be passed to TR8.18 from VTG or TR8.4.

Olson noted the potential difficulty in obtaining more complex data due to where one might need to make the measurement - i.e., an open box test vs. a closed box test. The BER% has historically been used as it doesn't require special measurements that might require access to internal measurement points that aren't readily available.

Wilson indicated that some people accept BER% to DAQ values and some do not accept them. He indicated that the issues of subjective and objective differences are difficult to judge. (The TSB defines both subjective and objective testing.) AI suggested the need for better methods. Olson requested inputs on this topic. Wilson suggested FEC characterization could aid in this mapping function. He also mentioned that test patterns would influence the results.

## 9. Review of Assignments

- Send to ballot PN3-4744.1-RV3 AD1 (TSB-88.1-C-1).
- Publish PN3-4744.3-RV3 AD1 (TSB-88.3-C-1)
- Request members review and comment on documents distributed at this meeting.
- Request comments of acceptance testing methodologies

## 10. Schedule Next Meeting

The next meeting will be the week of 4/26 in San Diego. Olson requested 45 minutes.

## 11. Adjourn

The meeting was adjourned at 2:26 PM MST.

The meeting was conducted in accordance with the TIA Engineering Manual and TIA Legal Guidelines

Bernie Olson  
Chair & Secretary

## Document Log

2009			
TR8.18/09-01-001	1/19/2009	Proposed New Section 3.3 Trademarks	C.B. Olson
TR8.18/09-01-002	1/19/2009	Appended Parameters for NXDN 4.8 kbps & 9.6 kbps	C.B. Olson
TR8.18/09-01-002	1/19/2009	ProposedBallotResolution.PN-3-0268.pdf	T. Rubinstein
TR8.18/09-01-004	1/19/2009	pn3-0268_CommentsResolved.pdf	T. Rubinstein
TR8.18/09-01-005	1/19/2009	ProposedBallotResolution.PN3-4744_2.pdf	T. Rubinstein
TR8.18/09-01-001 RV3	4/27/2009	New section 3.3.doc	C.B. Olson
TR8.18/09-04-0006	4/27/2009	FCC-09-29A1[1].pdf	C.B. Olson
TR8.18/09-04-0007	4/27/2009	PN3-4744.4rev3 Draft.doc	C.B. Olson
TR8.18-09-01-001-R4	8/11/2009	new section 3.3.doc	C.B. Olson
TR8.18_09-08-0008	8/11/2009	pn4820rv1ad2_a2.pdf	T. Rubinstein
TR8.18_09_08_0009	8/11/2009	STATUS.ppt	C.B. Olson
TR8.18_09_08_0010	8/11/2009	PN3-4744.1-RV4-V0.0.pdf	C.B. Olson
TR8.18_09_08_0011	8/11/2009	4.9 GHz Issues.pdf	C.B. Olson
TR8.18_08-04-0010-R1	10/19/2009	ErrataTSB88_1C.doc	C.B. Olson
TR8.18_09-01-001-R4	10/19/2009	new section 3.3.doc	C.B. Olson
TR818_09-10-0012	10/19/2009	BallotSummary.pdf	T. Rubinstein
TR8.18_09-10-0013	10/19/2009	Charlotte 09.ppt	C.B. Olson
TR8.18_09-10-0014	10/19/2009	Emission Designator-New v0.5.doc	C.B. Olson
TR8.18_09-10-0015	10/19/2009	Canadian Wide Band Regulations.doc	C.B. Olson
Tr8.18_09-10-0016	10/19/2009	PN3-4744.3-RV3-AD1 .pdf	C.B. Olson
TR8.18_09-10-0017	10/19/2009	TSB-88.1-C Errata .pdf	C.B. Olson
TR8.18_09-10-0018	10/19/2009	Pn3-4744.4-RV3 draft	R. Shapiro
TR8.18_09-10-0019	10/19/2009	Harris TSB-88 Data for WCQPSK.xls	M. Hartless
2010			
TR8.18_10-01-0001	1/18/2010	PN3-4744.1-C1 Addendum V0.32.pdf	C.B. Olson
TR8.18_10-01-0002	1/18/2010	TSB-88 Data for WCQPSK_To_TIA_12_14_09.xls	M. Hartless
TR8.18_10-01-0003	1/18/2010	HDQPSK-88_1-D.xls	T. Mansfield
Tr8.18_10-01-0004	1/18/2010	PN3-4744.1-RV3-FinalouseE3.pdf	C.B. Olson
TR8.18_10-01-0005	1/18/2010	Summary of PN3-4744.3 AD1.doc	C.B. Olson
TR8.18_10-01-0006	1/18/2010	PN3-4744.3-RV3-AD1 .pdf	C.B. Olson
TR8.18_10-01-0007	1/18/2010	Summary .PPT	C.B. Olson
TR8.18_10-01-0008	1/18/2010	NPSTC Request on DTV.pdf	R. Haller
TR8.18_10-01-0009	1/18/2010	PN3-4744 4-RV3-edit2.pdf	R. Shapiro

## Voting Eligibility

Mesa, AZ Jan 18, 2010		TR8.18 Attendance				
Organization	Eligible This?	Aug 2009	Oct 2009	Jan 2010	Eligible Next?	Elg
ACD Telcom	N				N	0
AECOM	Q	X	X	X	Y	1
Aeroflex	Y			X	Y	1
Commscope/Andrew	N				N	0
Booz Allen & Hamilton	N				N	0
CML Microcircuits	N				N	0
Daniels Electronics	Y		X	X	Y	1
Datron	Y	X	X	X	Y	1
EADS	Y	X	X	X	Y	1
EF Johnson	Y	X	X	X	Y	1
Etherstack	Y	X		X	Y	1
Frye-Comm	Y	X			Y	1
Harris	Y	X	X	X	Y	1
ICOM	Y	X		X	Y	1
IPC (Orbacom)	N				N	0
Kenwood Comm	N				N	0
Mesa, City of	Y				N	0
Motorola	Y	X	X	X	Y	1
NIST-OLES (NCS)	Y	X	X	X	Y	1
Oregon State Police	Y	X	X		Y	1
Relm	Y	X		X	Y	1
Tait, NA	Y	X	X	X	Y	1
Technisonic	Y	X		X	Y	1
Thales	Y	X	X	X	Y	1
TxRx	Y	X	X		Y	1
USDHS	Y	X	X	X	Y	1
USDOJ/FBI	N				N	0
Zetron	N		X		N	0
<b><i>Voting Member Total</i></b>					<b>19</b>	<b>19</b>
Next Meeting Quorum TIA only						<b>10</b>