

Project	<b>IEEE 802.20 Working Group on Mobile Broadband Wireless Access</b> <a href="http://grouper.ieee.org/groups/802/20/">&lt;http://grouper.ieee.org/groups/802/20/&gt;</a>	
Title	<b>Draft Meeting Minutes, 802.20 Interim Meeting - Session #18, Waikoloa Village, Hawaii, USA, Jan 16-19, 2006</b>	
Date Submitted	<b>2006-01-31</b>	
Source(s)	Rajat Prakash, as acting Recording Secretary for the session QUALCOMM, Incorporated 5775 Morehouse Drive San Diego, CA, 92121	Email: <a href="mailto:rprakash@qualcomm.com">rprakash@qualcomm.com</a>
Re:	<b>802.20 Session#18</b>	
Abstract	Draft of the Minutes of the Session #18;	
Purpose	Minutes of the Session.	
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## **Draft - Meeting Minutes of the 802.20 Session #18**

Jan 16-19, 2006

Waikoloa Village, Hawaii, USA

Rajat Prakash, as acting Recording Secretary

The 18<sup>th</sup> session of 802.20 was held at the Jan 2006 Interim meeting of IEEE 802.

Contributions and WG documents referenced in these minutes can be found at the 802.20 website, <http://www.ieee802.org/20/>

**See the Appendix A-1 for the overall session attendance and participation credit list.**

### **Minutes of 802.20 Monday Jan 16, 2005**

**Meeting started at 1:00 pm.**

Chair went over the presentation C802.20-06/09 (Chair's opening slides for Plenary).

- Bylaws on Patents (as revised in January 2006)
- Copy Right Rules
- Logistics of the session.
- IEEE 802 meeting conduct
- Sign in procedure for the session
- IEEE-SA Standards Board Bylaws on Patents in Standards
- Logistics for the session
- Meeting agenda and objectives

Quorum Roll Call: Results from the voters list read by the recording secretary: 66 present, 13 absent. Results listed in Appendix B. Chair declared quorum was present for the session. There were no objections to the Quorum Call and the Chair's declared quorum.

Manual sign in Attendance books were distributed. The Chair stated the books were not to leave the room. He also stated this is an honor system and any attempt to falsify attendance would result in No session credit.

**Motion** to approve the minutes of the November meeting. Moved by Nancy Bravin, second by Ayman Naguib. Debate on the motion.

Request for following amendment in minutes: Request in last meeting from James Mollenauer to chair that he discuss with the 802 Executive Committee that members disclose their affiliations more completely." The chair asked James Mollenauer to propose text for update of the minutes. The mover and seconder agreed. This was done and the minutes were revised with Mr. Mollenauer agreement.

Request for following amendment in minutes (Jose Puthenkulam): Discussion about letter from ATIS should be added in minutes. Chair agreed to make the change. The mover and seconder agreed.

Question from Anna Tee on 75% attendance requirement in November meeting. The chair responded that his ruling about 75% attendance has not changed. He explained that guidance and further inputs from the 802 Chair did not provide any information to change

his November ruling. Anna Tee stated she disagreed with the ruling. Jose Puthenkulam expressed support for Anna Tee.

Request from Jim Ragsdale that quotation marks be added to statement of Jose Puthenkulam on page 6 of the minutes. The mover and seconder agreed.

**Motion to approve minutes** with changes suggested above: Motion passes with 51 yes, 1 no, 3 abstain.

**Motion** to approve the agenda. Moved by Nancy Bravin second by Lynne Dorward. Debate on the motion.

Friendly amendment by Jim Ragsdale to amend agenda such that the group recess for the day at 5pm on all days (given the time difference from East Coast of US). Amendment not accepted by mover.

**Motion** Jim Ragsdale and second by Dan Gal to amend agenda such that we recess for the day at 5pm on all days. Mark Klerer argued against amendment because in his opinion it will set a bad precedent, keeping in mind that IEEE meetings occur at different time zones. 13 yes, 42 no, 1 abstain. Motion fails.

Request for friendly amendment by Jose Puthenkulam to discuss EC Indemnification memo. Chair agreed to discuss this memo with a ten minute time allocation. Mover and seconder agreed.

Friendly amendment: under Q&A for MBTDD and MBFDD, allocate fifteen minutes for discussion of response to previous questions posted during the November meeting. Accepted by mover and seconder.

**Vote on motion to approve agenda**, with two amendments noted above. Approved with 54 yes, 1 No and zero abstains. Approved Agenda is shown in Appendix A-2.

**Update** on email (Indemnification Memo to 802 members) received by chair from 802. Details in Bylaw I-300.3. Chair discussed and projected on the screen the email he had received.

Statement from IEEE standards official: IEEE plans to introduce training/tutorial information about Indemnification process and requested members to familiarize members with the same.

Early break at 2:25pm was taken because of power supply problems in the meeting room.

Resumed at 3:15pm.

Chair noted that if the agenda is extended to allow for evening session, there will be a vote on whether attendance for the evening session will count towards attendance credit.

Chair presented a slide on technology selection from contribution C802.20-06/09, and noted that there is only one TDD (after merger) and one FDD proposal remaining for consideration by the group.

**Motion:** Moved by Hassan Yaghoobi second by Anna Tee. Because of the small number of proposals the mover requests postponement of the confirmation process to March.

Chair noted that this motion will change the agenda, and hence a 2/3 vote is needed to approve this motion.

Mark Klerer said that a similar discussion and vote occurred in November. Jose Puthenkulam argued that more time should be given to proponents to bring in new proposals.

Vote on the motion: Yes 13, No 47, 1 Abstain. Motion fails.

Al Wieczorek requested for a roll call vote.

**Motion** for a roll call vote (moved by Al Wieczorek, second by Anna Tee). Vote on the motion. 14 Yes, 43 No; Motion fails.

**Presentation:** (05/58r1, 06/08, 05/62r1, 05/87r1) MBFDD proposal, Presenters James Tomcik, Alex Gorokhov, Tingfang Ji, Fatih Ulupinar . Started at 3:45pm. Presenters requested that questions be taken after the presentations are over.

Presentation ended at 4:45pm.

Q&A on the proposal begins. As noted in the change to agenda, there are 15 minutes reserved for Q&A for questions submitted during November and responded to with contributions.

Q&A started at 4:55pm.

Alan Jette stated: The link to system interface was required in the initial submission for a complete proposal, and it was provided later only in the revised version of the report.

Jose Puthenkulam stated: The proposal does not include a 1.25MHz mode, but the SRD/PAR requires that the technology support 1.25MHz solution. Presenters replied that there is no requirement that proponents bring in a 1.25MHz system per the approved Requirements document.

Anna Tee and Hassan Yaghoobi stated: The proposal does not include transmitter and receiver specifications. The presenters responded that such specifications are not required for complete proposals.

5:25pm

**Motion :** Moved by Hassan Yaghoobi, second by Anna Tee. The proposals MBFDD and MBTDD are not compliant relative to the following items:

Section 4.2.5.2 and Section 4.2.5.3 of IEEE 802.20 SRD (PD-06r1) and lack of a 1.25MHz solution as cited in the PAR. Refer to 06/06 contribution.

Motion fails: Yes 11, No 45, Abstain 1.

Continue with Q&A, including 10 minutes given to questions from earlier contribution (November) by Alan Jette.

General Q&A resumed at 6:05pm.

Farooq Khan stated that the proposal should meet the 10ms delay requirement and the spectral efficiency requirements simultaneously. The presenters stated that the two requirements are met separately and therefore compliant.

Chair noted that there are 2 more hours for Q&A available on Tuesday morning.

Recessed at 6:30pm.

### **Minutes of 802.20 Tuesday Jan 17, 2005**

The session resumed at 8:00am.

Continue Questions and Answers on MBFDD proposal.

Leo Razoumov questioned the validity of the link to system interface and requested the presenters to provide more details (under the Fractional Frequency Reuse scheme) in the next meeting. The presenters stated they would have an offline discussion of this issue with him.

Jim Ragsdale stated: The requirement for spectral efficiency on the down link vehicular channel should be met for a Vehicular B Channel.

The presenters replied that the requirement is met for the Vehicular A channel, and this is sufficient to satisfy the evaluation criteria and requirements.

Several attendees requested that their comments and presenters responses be included in the minutes. These comments and responses, as collected through email exchanges, are included Appendix C-2.

Comment from Anna Tee about number of Guard carriers needed, and request from Farooq Khan about assumptions needed for FFR. These questions, along with several other questions were submitted in writing. The recording secretary forwarded the questions to the proponents, and the questions and responses are included in Appendix C2.

End of Q&A.

Break from 10:20am-10:50am.

Resumed at 10:55am.

**Presentation (started 11am):** (06/03, 06/07, 05/67r1, 05/89r1) MBFDD proposal. Presenters James Tomcik, Alex Gorokhov, Tingfang Ji, Fatih Ulupinar. Started at 3:45pm. Presenters requested that questions be taken after the presentations are over.

Presentation ended at 12:05pm.

Break for lunch.

Resume at 1:05pm for Q&A.

Some attendees requested that their comments and presenters responses be included in the minutes. Several questions were submitted in writing. The recording secretary forwarded the questions to the proponents, and the questions and responses are included in Appendix C-2.

Q&A ended at 3:40pm.

Break and resumed at 4:10pm.

**Presentation of** 05/78r1, 05/79r1, 06/02. Presenters R. Canchi, D. Garg, K. Murakami, and M. Kithara.

Presentation ended at 5:05pm.

Q&A started at 5:05pm.

Jose Puthenkulam requested that his following statement be included in the minutes: "The MBTDD proposal contains two distinct modes that cannot be deployed together. Nor are they interoperable. The authors' answers to the questions confirm that these are two distinct proposals that have been artificially labeled as two modes within a single proposal".

The presenters disagreed with the statement. The presenters stated that the modes provide additional flexibility to the potential operators of the networks.

Recessed at 6:35pm

### **Minutes of 802.20 Wednesday Jan 18, 2005**

Session resumed at 8:00am.

Q&A on MBTDD proposal continued.

Q&A for 625k mode and Wide band mode.

**Contribution** 06/10 from Anna Tee and others. Started at 9:20am. A first version of this document was submitted late Tuesday night. A revised version with significant changes (including changes in the contributor names) was provided at 9:20am on Wednesday, and the Chair agreed to consider this revised version. There were no objections from the working group. Both versions of the contribution are available on the 802.20 website under January contributions.

Break from 10-10:30. Chair noted that special orders of the day (confirmation vote) will begin at 10:30am.

Resumed at 10:30 for FDD vote.

A number of attendees requested a delay in the vote or stated they did not understand the approved agenda. The Chair stated the approved agenda has the confirmation vote as Special Orders of the Day and the vote will start now per the agenda. A side discussion with some attendees, Mat Sherman and Karen Kenney of IEEE staff occurred as members lined up for their ballots. The vote proceeded as stated by the Chair.

**Confirmation Vote:** Voting by written ballot begins. Voting results counted by Mat Sherman, First Vice Chair of the 802 Executive Committee, and Eshwar Pittampalli, Liaison Vice Chair of 802.20.

11:10am

Results 55 Yes, 14 No Votes passes with 79.7%. The FDD remaining proposal MBFDD is confirmed.

Resumed general orders of the day till next special order of the day at 11:30am.

**Motion:** Hassan Yaghoobi proposed and James Mollenauer seconded. To invalidate the results of confirmation voting for MBFDD so that the revisions required to address Non-Compliance issues listed in Contribution c802.20-06-01r2 can be submitted for working group consideration before a re-voting on confirmation.

Chair noted that this is a technical motion and requires 75% to pass.

The mover requested a Roll Call vote. The Chair granted the request. The Roll Call results are listed in Appendix B.

Motion failed. 13 Yes, 53 No and 2 abstain.

11:25am.

**Motion:** Moved by Anna Tee, second Hassan Yaghoobi. To postpone confirmation voting for MBTDD so that the revision required addressing Non-Compliance C802.20-06-10r2 can be submitted for working group consideration.

Chair stated that this is a change to agenda and needs 66% to pass.

Seconder requested for roll call vote. Chair asked for motion to do roll call vote.

Motion to have a roll call (moved by Hassan Yaghoobi, second by Anna Tee). 11 yes, 51 no. Motion to have roll call fails.

Statement from Siavash Alamouti representing Intel in favor of motion, with request that statement be included in the minutes. Statement is included in the Appendix C1. Al Jette, Motorola, supported the statement.

Vote on main motion 11:35am: 12 No, 50 Yes and 1 Abstain: motion fails.

11:40am

Special Orders of the Day – TDD confirmation vote

**Confirmation Vote:** for TDD. Results counted by Mat Sherman and Eshwar Pittampalli. 54 yes, 14 no. Confirmation vote passes with 80.6% approval.

Chair stated he would issue a Working Group Letter Ballot based upon the draft, contribution C802.20-06/04, confirmed for FDD and TDD, per the approved Technology Selection Process.

Recess for lunch 12-1:30pm

Chair noted that second confirmation vote not needed, so we move to next agenda item regarding a PAR extension.

**Motion** from Mark Klerer, second by Nancy Bravin. The 802.20 Working Group approves the request for a two year extension of the current PAR. The chair will forward the completed PAR Extension Form to the 802 Executive Committee for approval. If approved the request will be sent to NesCom for its approval. Two years is the customarily granted extension; however a one year extension shall also be acceptable if that is deemed appropriate by the 802 EC and NesCom.

Debate on the motion:

Comment from Jose Puthenkulam: Request to the chair to forward this motion/extension request to chairs of other working groups. Chair stated the extension will be sent to all Executive Committee members and that includes all Working Group Chairs.

James Mollenauer asked: How does the chair think this time will be used. The chair said this extension maybe needed for the Working Group and Sponsor ballots given the potential time required for forming the Sponsor pool and recirculation ballots. However, the Chair is committed to attempting to finish in 2006. Based upon input from the Chair of 802, the Chair believes it is appropriate to have an extension as insurance for the group to finish the standards development.

Request from Jose Puthenkulam: If the request for PAR extension is granted, the working group should entertain new proposals. A number of people spoke against this comment and stated support for the extension.

2:45pm

Vote on the motion: 51 yes, 8 no, 1 abstain. Motion passes with 86.4%. Chair will send the extension form to the EC for approval in the March Plenary.

Discussion on “Next steps on Technology Selection and additional votes, if needed”

Chair mentioned that the draft will be in a members area, passwords to be issued later. Mark Klerer volunteered and was appointed by chair as editor, and chair will appoint a comment resolution committee/group.

2:50pm

Next meeting planning agenda item: Chair requested participants to reserve rooms in Denver as soon as possible as the hotel is almost full.

Chair noted there will be an election for offices of 802.20 in the next meeting. Election is 7pm Monday (local time) per the Working Group P&P. Chair will send an email asking for nominations, and reminded everyone to look at procedures.

Chair noted that it is unlikely that the next meeting will go on beyond Tuesday or Wednesday.

Question from Jose Puthenkulam: What is the nature of the committee that resolves comments, and who will be in the committee. The chair mentioned that he has not decided on the membership or size of the committee yet. Chair requested people interested in participating on the committee should send him an email.

Close of Session Agenda Item:



**Motion** from Hassan Yaghoobi, second by Anna Tee: To distribute the proposed PAR extension form of 802.20 to all 802 working group chairs and ask them to obtain feedback and comments at the March Plenary from their members.

Chair stated he thought this was unnecessary as he previously stated the extension form would be sent the Executive Committee.

A number of people spoke against this motion stating they did not understand the purpose or felt it was outside the 802 P&P. Others spoke in support.

Mover requested for roll call vote. The Chair granted the request for a Roll Call vote. The Roll Vote is listed in Appendix B.

Motion fails after roll call vote: 12 yes, 46 no, 8 abstain.

#### Motion to Adjourn

Moved by David Huo

Second by Nancy Bravin

Yes 53, No 6; Motion passes.

Time: 230 pm

Chair asked everyone come up and sign in for PM1 if they had not had a chance to do so. If people had already signed for PM2, the PM2 attendance will be crossed out by the Chair with no assumed falsification issues.

**Session #18 is adjourned**

#### **Appendix A-1 – Participation Credit**

<b>Last Name</b>	<b>First Name</b>	<b>Company/Organization</b>	<b>Jan. Participation Credit</b>
Agis	Edward	Intel Corp	Yes
Agrawal	Avneesh	Qualcomm	Yes
Ahn	Jae Young	ETRI	Yes
Alamouti	Siavash	Intel	Yes
Ali	Murtaza	Texas Instruments	Yes
Alphonse	Jean	Lucent Technologies	Yes
Arefi	Reza	Intel	Yes
Austin	Mark	OFCOM	No
Barber	Phillip	Huawei	No
Barriac	Gwen	Qualcomm	Yes
Basu	Saswata	Intel	Yes
Bernstein	Jeffrey	TMG	Yes
Bravin	Nancy	Individual	Yes

Burbank	Jack	JHU/APL	Yes
Bussey	Chris	Bussey Consulting	Yes
Cai	Sean	ZTE Communications	Yes
Canchi	Radhakrishna	Kyocera	Yes
Carlo	Jim	Huawei	Yes
Carneiro	Edson	Edmais Computer Services	Yes
Carson	Peter	Qualcomm	Yes
Castell	Harold P.	Bussey Consulting	Yes
Chee	Frederick	SK Telecom	No
Chickneas	Jim	Consultant/Qualcomm	Yes
Chindapol	Aik	Siemens	No
Chion	Hua	ZTE Communications	Yes
Cho	Juphil	ETRI	Yes
Cho	Jaeweon	Samsung Electronics	Yes
Choi	Hyoungjin	TTA	Yes
Choi	JoonYoung	Samsung	Yes
Choi	Yang-Seok	Intel	Yes
Chong	Chia-Chin	DoCoMo USA Labs	Yes
Chun	Jin Young	LGE	Yes
Chung	Jaeho	KT Corp.	Yes
Cleveland	Joseph	Samsung	Yes
Comstock	David	Huawei	Yes
Dean	Chris	TMG Telecom	Yes
Dorward	Lynne	Ladcomm Corp	Yes
Dunn	Doug	KTRC	Yes
Eilts	Henry	Texas Instruments	Yes
Epstein	Mark	Qualcomm	Yes
Feder	Peretz	Lucent	Yes
Freeland	Graham	Steepest Ascent Ltd	Yes
Gal	Dan	Lucent	Yes
Garcia-Alis	Daniel	Univ. of Strathclyde	Yes

Garg	Deepshikha	Kyocera Telecom Research Corp	Yes
Giles	Arthur	A Giles Consulting	Yes
Gomes	Eladio	Double E Enterprises	Yes
Gore	Dhananjay	Qualcomm	Yes
Gorodetsky	Svetlana	Gorodetsky Consulting	Yes
Gorokhov	Alexei	Qualcomm Inc.	Yes
Guo	Qiang	Motorola	Yes
Habab	Zion	Runcom	Yes
Henderson	G.S.	RIM	No
Ho	Jin-Meng	Texas Instruments	Yes
Hou	Victor	Broadcom	Yes
Howard	Fred	Network Consulting Services	Yes
Hu	Rose	Nortel	Yes
Humbert	John	Sprint	Yes
Huo	David	Lucent	Yes
Iimuro	Kazuyoshi	Kyocera	Yes
Ishida	Kaz	Qualcomm	No
Jeon	Ho-In	Kyung-Won Univ.	No
Jeong	Kay Hyun	Samsung	Yes
Jeong	Byung-Jang	ETRI	Yes
Jette	Alan	Motorola	Yes
Ji	Tingfang	Qualcomm Inc.	Yes
Jones	Dennis	Taliesen North Consulting	Yes
Joo	Pan Yuh	Samsung	Yes
Kadous	Tamer	Qualcomm	Yes
Kalhan	Amit	Kyocera Telecom Research	Yes
Kasch	William	John Hopkins Univ.	Yes
Khademi	Majid	Khademi Consulting	Yes
Khan	Farooq	Samsung	Yes
Khandekar	Aamod	Qualcomm Inc	Yes

Khatibi	Farrokh	Qualcomm	Yes
Kiernan	Brian	Interdigital Communications	Yes
Kim	Peter J.W.	TTA	Yes
Kim	Yong Ho	LG Electronics	Yes
Kim	Young Kyun	Samsung	Yes
Kim	Young-Ho	Samsung	Yes
Kim	Kanghee	ETRI	Yes
Kimura	Shigeru	Kyocera	Yes
Kitahara	Minako	Kyocera	Yes
Kitamura	Takuya	Fujitsu	Yes
Klerer	Mark	Flarion Technologies	Yes
Knisely	Douglas	Airvana	Yes
Ko	Young-Jo	ETRI	Yes
Koo	Changhoi	Samsung	Yes
Kwon	Young Hyoun	LG Electronics	Yes
Kwon	Dong Seung	ETRI	Yes
Lalaguna	Pablo	MedStar	Yes
Lawrence	Lisa	CTCI Group	Yes
Lee	Heesoo	ETRI	Yes
Lee	Jungwon	Marvell Semiconductor	Yes
Lee	Sungjin	Samsung	Yes
Lee	Mihyun	Samsung Electronics	Yes
Lee	Wook-Bong	LG Electronics	Yes
Li	Thomas	FutureWei Technologies	Yes
Lim	Hyoung Kyu	Samsung	Yes
Lin	Jiezhen	Siemens Ltd., China	Yes
Lu	Jianmin	Huawei	Yes
Ma	Steven	Freescall Semi.	Yes
Martynov	Irina	Belgud International	Yes
Martynov	Michael	Belgud International	Yes

McGinniss	David	Sprint	Yes
McMahon	Anthony	Steepest Ascent	Yes
McMillan	Donald	Adv. Network Tech. Solutions	Yes
Miyazono	Max	Qualcomm	No
Mollenauer	James	Technical Strategy/Motorola	Yes
Murakami	Kazuhiro	Kyocera	Yes
Murphy	Peter	Intel Corp.	Yes
Naaman	Laith	Intel Corp	Yes
Nabar	Romit	Marvell Semiconductor	Yes
Naguib	Ayman	Qualcomm	Yes
Naidu	Mullaguru	Qualcomm	Yes
Nakamura	Kenichi	Fujitsu	Yes
Nakamura	Tetsuya	NTT MCL Inc.	Yes
Nakano	Shinji	KTRC.	Yes
Nguyen	Nha	BCSI	Yes
Nicolas	Julien	Kyocera Research	Yes
Novick	Fred	Bussey Consulting	Yes
O'Brien	Francis	Lucent	Yes
Odlyzko	Paul	Motorola	Yes
Park	Chul	ERTI	Yes
Park	Clyde	SK Telecom	No
Park	Won-Hyoung	Samsung AIT	Yes
Patzer	Steve	Intel	Yes
Perini	Patrick	EFR, Inc.	Yes
Pfann	Eugen	Univ. of Strathclyde	Yes
Ping	Luo	Panasonic Singapore	Yes
Pirhonen	Riku	Nokia	Yes
Pittampalli	Eshwar	Lucent	Yes
Poisson	Sebastien	OasisWireless	Yes

Polcari	Amy	Bussey Consulting	Yes
Polsgrove	Jim	JKB Global	Yes
Prakash	Rajat	Qualcomm	Yes
Preece	Rob	BCSI	Yes
Puthenkulam	Jose	Intel	Yes
Qian	Xiaoshu	Intel	Yes
Ragsdale	James	Ericsson	Yes
Rajkumar	Ajay	Lucent	Yes
Razoumov	Leonid	Intel	Yes
Roy	Richard	SRA, Inc.	No
Sampath	Hemanth	Qualcomm	Yes
Sano	Masato	KTRC	Yes
Sekiguchi	Shoichi	TRDA	No
Shabtay	Ophir	Comsys Comms. Inc.	Yes
Shasha	Eli	Runcom	Yes
Sherlock	Ian	TI	No
Shields	Judy	Ladcomm Corp.	Yes
Shono	Takashi	Intel	Yes
Sivanesan	Kathiravetpillai	Samsung	Yes
Son	Jungje	Samsung Electronics	Yes
Son	Yeongmoon	Samsung	Yes
Sorensen	Henrik	Agere Systems	Yes
Stubby	Richard	Agere Systems	Yes
Suh	Changho	Samsung Electronics	Yes
Sutivong	Arak	TRUE Corporation	Yes
Suzuki	Tomohiro	KYOCERA Corp.	Yes
Tamaki	Satoshi	Hitachi	Yes
Tan	Teik-Kheing	NA	No
Tang	Xiangguo	FutureWei Technologies	Yes
Teague	Harris	Qualcomm, Inc.	Yes

Tee	Lai-King Anna	Samsung	Yes
Tomcik	James	Qualcomm	Yes
Toro	Steven	Sane Solutions LLC	Yes
Trick	John	Bussey Consulting	Yes
Ulupinar	Fatih	Qualcomm	Yes
Upton	Jerry	JUpton Consulting;Qualcomm	Yes
Valbonesi	Lucia	Motorola	Yes
Valls	Juan Carlos	TMG Group	Yes
Vijayan	Rajiv	Qualcomm, Inc.	Yes
Wasilewski	Thomas	Qualcomm	Yes
Wieczorek	Alfred	Motorola	Yes
Wiklund	Magnus	Fujitsu	No
Wilson	Joanne	ArrayComm	Yes
Yaghoobi	Hassan	Intel	Yes
Yallapragada	Rao	Qualcomm	Yes
Yeh	Choongil	ETRI	Yes
Yin	Hujun	Intel	Yes
Yoo	Do-Sik	Samsung	Yes
Youssefmir	Michael	ArrayComm	Yes
Yuda	Tetsuya	KTRC	Yes
Zhang	Jinyun	Mitsubishi Electric	No
Zhu	Chenxi	Fujitsu	Yes

## Appendix A-2 – Approved Agenda

### Proposed Detail Agenda – Jan. 2006 Interim – 802.20 As Approved Monday

#### Monday, Jan. 16, 2006 8:00AM - 10:00 AM

Joint Opening 802.11/15/18/19/20/21/22 (Attendance is requested but optional)

- IEEE IPR rules and conduct
- Logistics for the session
- Session Objectives by Working Group
- Proposed 802.20 Session Objectives & Agenda

Agenda items time are for time management, except Special orders		
<b>Monday, Jan. 16 1:00PM – 6:30 PM (Break 3:30 – 4:00PM)</b>		
Opening Session of 802.20 - Attendance Procedure & Quorum Call - Approval of Agenda including modifications - Approval of Nov. Plenary Minutes - Review of EC/WG actions in Nov. & other EC actions(Specifically 10 mins on 802 Chair Letter on Indemnification) - Other Session Logistics	1:00pm-3:00pm	C802.20-06/09
Technology Selection Process steps for session: - Remaining Proposals for selection voting - Merged Proposals, if any - Revised Proposal, if any	3:00pm-3:30pm	
Remaining FDD Complete Proposals Presentations: - MBFDD Proposal: Package Index and Summary Classification Statement- Jim Tomcik - MBFDD Updates- Jim Tomcik - MBFDD Report 1 Presentation- Jim Tomcik - MBFDD Report 2 Presentation- Jim Tomcik - Questions and Answers (includes 15 mins. for Q response to prev. contributions)	4:00pm-6:30pm	C802.20-05/58r1  C802.20-06/08 C802.20-05/62r1 C802.20-05/87r1

Agenda items time are for time management, except Special orders		
<b>Tuesday, Jan. 17, 2006 8:00AM - 12:30 PM (Break 10:00 – 10:30AM)</b>		
Remaining FDD Complete Proposals(continued) - Questions and Answers	8:00am–10:00am	
Remaining TDD Complete Proposals Presentations - MBTDD Proposal: Package Index and Summary Classification Statement- Jim Tomcik - MBTDD Updates- Jim Tomcik - MBTDD Wideband Mode Report 1-J. Tomcik	10:30am–12:30pm	C802.20-06/03  C802.20-06/07 C802.20-05/67r1
<b>Tuesday, Jan. 17, 2006 1:30PM – 6:30 PM (Break 3:30 – 4:00PM)</b>		
Remaining TDD Proposals Presentations continued - MBTDD Wideband Mode Report 2 – J. Tomcik - Questions and Answers for MBTDD WideBand Mode	1:30pm - 3:30pm	C802.20-05/89r1
MBTDD 625k-MC Mode (BEST-WINE) revised Technology Proposal Overview – R. Canchi	4:00pm - 6:30pm	C802.20-05/78r1
MBTDD 625k-MC Mode (BEST-WINE) Performance Report 1 Presentation– R. Canchi		C802.20-05/79r1
MBTDD 625k - MC Mode Performance Evaluation		C802.20-06/02



Report 2 Presentation– R. Canchi		
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<b>Wednesday, Jan. 18, 2006 8:00AM - 12:30 PM (Break 10:00 – 10:30AM)</b>		
Remaining TDD Complete Proposals(continued) - Questions and Answers	8:00am -9:00am	C802.20-06/10
Questions on IEEE 802.20 proposals – Anna Tee	9:00am -10:00am	
** Confirmation Vote for FDD	10:30am-11:30am	
** Confirmation Vote for TDD	11:30am-12:30pm	
(**Special Orders of the Day)		
<b>Wednesday, Jan. 18, 2006 1:30PM – 5:30 PM (Break 3:00 – 3:30PM)</b>		
Additional Presentations if requested/needed by Candidates	1:30 pm–3:00 pm	
** Confirmation Vote for FDD	3:30 pm–4:30 pm	
** Confirmation Vote for TDD	4:30 pm–5:30 pm	
(**Special Orders of the Day)		
<b>Wednesday, Jan. 18, 2006 6:00PM - 9:30 PM</b>		
- 802 Social Reception		
<b>Thursday, Jan. 19, 2006 8:00AM - 12:30 PM (Break 10:00 – 10:30AM)</b>		
PAR Extension- Motion to Request extension for 2yrs	8:00am-10:0am	
Next Steps on Technology Selection and additional votes, if needed	10:30am-12:30pm	
<b>Thursday, Jan. 19, 2006 1:30PM - 5:00PM (Break 3:30 – 4:00PM)</b>		
New Business	1:30pm – 2:30pm	
Next Meeting Planning	2:30pm – 4:30pm	
Close of the Session and Adjourn	4:30pm – 5:00pm	
Agenda items time are for time management, except Special orders		

## Appendix B – Roll Calls for Quorum Call and Roll Call Votes

### Quorum Roll Call

#### Session #18

Last Name	First Name	Jan 06 Voter	Absent	Present
Alder	Larry	M	x	
Barriac	Gwen	M		x
Bernstein	Jeffrey	M		x
Bravin	Nancy	M		x
Bussey	Chris	M		x
Canchi	Radhakrishna	M		x
Carneiro	Edson	M		x
Carson	Peter	M		x

Castell	Harold P.	M		x
Chickneas	Jim	M		x
Dean	Chris	M		x
Dodd	Donald	M	x	
Dorward	Lynne	M		x
Eilts	Henry	M		x
Epstein	Mark	M		x
Ferguson	Alistair	M	x	
Gal	Dan	M		x
Garcia-Alis	Daniel	M		x
Garg	Deepshikha	M		x
Giles	Arthur	M		x
Gomes	Eladio	M		x
Gorodetsky	Svetlana	M		x
Guo	Qiang	M		x
Hou	Victor	M		x
Huo	David	M		x
James	David S.	M	x	
Jones	Dennis	M		x
Khademi	Majid	M		x
Khatibi	Farrokh	M	x	
Kimura	Shigeru	M		x
Kitahara	Minako	M		x
Klerer	Mark	M		x
Knisely	Douglas	M		x
Lalaguna	Pablo	M		x
Lawrence	Lisa	M		x
Lee	Heesoo	M		x
Lin	Jiezheng	M		x
Martynov	Irina	M		x
Martynov	Michael	M		x
McMillan	Donald	M		x
Miyazono	Max	M	x	
Mollenauer	James	M		x
Murakami	Kazuhiro	M		x
Naguib	Ayman	M		x
Naidu	Mullaguru	M		x
Nguyen	Nha	M		x
Novick	Fred	M		x
O'Brien	Francis	M		x
Ping	Luo	M		x
Pirhonen	Riku	M		x
Pittampalli	Eshwar	M		x
Poisson	Sebastien	M		x
Polcari	Amy	M		x
Polsgrove	Jim	M		x
Prakash	Rajat	M		x
Preece	Rob	M		x
Ragsdale	James	M		x
Rajkumar	Ajay	M	x	
Shields	Judy	M		x
Shively	David	M	x	
Springer	Warren	M	x	
Staver	Doug	M	x	
Sutivong	Arak	M		x
Tee	Lai-King Anna	M		x
Tomcik	James	M		x
Toro	Steven	M		x
Trick	John	M		x
Upton	Jerry	M		x
Valls	Juan Carlos	M		x
Vivanco	Silvia	M		x
Wasilewski	Thomas	M		x
Wieczorek	Alfred	M		X
Wilson	Joanne	M		X
Wu	Gang	M	x	
Yaghoobi	Hassan	M		X
Yallapragada	Rao	M		X

Youssefmir	Michael	M	x	
Yuda	Tetsuya	M		X
Yuza	Masaaki	M	x	

**Motion to Invalidate FDD Voting: Moved by Hassan Yaghoobi**

Last Name	First Name	Jan 06 Voter	Yes	No	Abstain
Alder	Larry	M			
Barriac	Gwen	M		x	
Bernstein	Jeffrey	M		x	
Bravin	Nancy	M		x	
Bussey	Chris	M		x	
Canchi	Radhakrishna	M		x	
Carneiro	Edson	M		x	
Carson	Peter	M		x	
Castell	Harold P.	M		x	
Chickneas	Jim	M		x	
Dean	Chris	M		x	
Dodd	Donald	M			
Dorward	Lynne	M		x	
Eilts	Henry	M	x		
Epstein	Mark	M		x	
Ferguson	Alistair	M			
Gal	Dan	M		x	
Garcia-Alis	Daniel	M		x	
Garg	Deepshikha	M		x	
Giles	Arthur	M		x	
Gomes	Eladio	M		x	
Gorodetsky	Svetlana	M		x	
Guo	Qiang	M	x		
Hou	Victor	M	x		
Huo	David	M			
James	David S.	M			
Jones	Dennis	M		x	
Khademi	Majid	M		x	
Khatibi	Farrokh	M		x	
Kimura	Shigeru	M		x	
Kitahara	Minako	M		x	
Klerer	Mark	M		x	
Knisely	Douglas	M		x	
Lalaguna	Pablo	M		x	
Lawrence	Lisa	M		x	
Lee	Heesoo	M	x		
Lin	Jiezhen	M	x		
Martynov	Irina	M		x	
Martynov	Michael	M		x	
McMillan	Donald	M		x	
Miyazono	Max	M		x	
Mollenauer	James	M	x		
Murakami	Kazuhiro	M		x	
Naguib	Ayman	M		x	
Naidu	Mullaguru	M		x	
Nguyen	Nha	M		x	
Novick	Fred	M		x	
O'Brien	Francis	M		x	
Ping	Luo	M	x		
Pirhonen	Riku	M	x		
Pittampalli	Eshwar	M		x	
Poisson	Sebastien	M		x	
Polcari	Amy	M		x	
Polsgrove	Jim	M		x	
Prakash	Rajat	M		x	
Preece	Rob	M		x	

Ragsdale	James	M			x
Rajkumar	Ajay	M			
Shields	Judy	M		x	
Shively	David	M			
Springer	Warren	M			
Staver	Doug	M			
Sutivong	Arak	M		x	
Tee	Lai-King Anna	M	x		
Tomcik	James	M		x	
Toro	Steven	M		x	
Trick	John	M		x	
Upton	Jerry	M			x
Valls	Juan Carlos	M		x	
Vivanco	Silvia	M		x	
Wasilewski	Thomas	M		x	
Wieczorek	Alfred	M	x		
Wilson	Joanne	M	x		
Wu	Gang	M			
Yaghoobi	Hassan	M	x		
Yallapragada	Rao	M		x	
Youssefmir	Michael	M	x		
Yuda	Tetsuya	M		x	
Yuza	Masaaki	M			

**Motion to send PAR extension to 802 WG Chairs.**

**Moved by Hassan Yaghoobi**

Last Name	First Name	Jan 06 Voter	Yes	No	Abstain
Alder	Larry	M			
Barriac	Gwen	M		x	
Bernstein	Jeffrey	M		x	
Bravin	Nancy	M		x	
Bussey	Chris	M		x	
Canchi	Radhakrishna	M		x	
Carneiro	Edson	M		x	
Carson	Peter	M		x	
Castell	Harold P.	M		x	
Chickneas	Jim	M		x	
Dean	Chris	M		x	
Dodd	Donald	M			
Dorward	Lynne	M		x	
Eilts	Henry	M	x		
Epstein	Mark	M			x
Ferguson	Alistair	M			
Gal	Dan	M			x
Garcia-Alis	Daniel	M		x	
Garg	Deepshikha	M		x	
Giles	Arthur	M		x	
Gomes	Eladio	M		x	
Gorodetsky	Svetlana	M		x	
Guo	Qiang	M			
Hou	Victor	M	x		
Huo	David	M			x
James	David S.	M			
Jones	Dennis	M		x	
Khademi	Majid	M		x	
Khatibi	Farrokh	M		x	
Kimura	Shigeru	M		x	
Kitahara	Minako	M		x	
Klerer	Mark	M		x	
Knisely	Douglas	M			
Lalaguna	Pablo	M			x
Lawrence	Lisa	M		x	
Lee	Heesoo	M	x		

Lin	Jiezhen	M	x		
Martynov	Irina	M		x	
Martynov	Michael	M			x
McMillan	Donald	M		x	
Miyazono	Max	M		x	
Mollenauer	James	M	x		
Murakami	Kazuhiro	M		x	
Naguib	Ayman	M	x		
Naidu	Mullaguru	M		x	
Nguyen	Nha	M		x	
Novick	Fred	M		x	
O'Brien	Francis	M		x	
Ping	Luo	M	x		
Pirhonen	Riku	M			x
Pittampalli	Eshwar	M	x		
Poisson	Sebastien	M		x	
Polcari	Amy	M		x	
Polsgrove	Jim	M		x	
Prakash	Rajat	M		x	
Preece	Rob	M		x	
Ragsdale	James	M		x	
Rajkumar	Ajay	M			
Shields	Judy	M		x	
Shively	David	M			
Springer	Warren	M			
Staver	Doug	M			
Sutivong	Arak	M	x		
Tee	Lai-King Anna	M	x		
Tomcik	James	M		x	
Toro	Steven	M		x	
Trick	John	M		x	
Upton	Jerry	M			
Valls	Juan Carlos	M		x	
Vivanco	Silvia	M		x	
Wasilewski	Thomas	M		x	
Wieczorek	Alfred	M			x
Wilson	Joanne	M	x		
Wu	Gang	M			
Yaghoobi	Hassan	M	x		
Yallapragada	Rao	M		x	
Youssefmir	Michael	M			x
Yuda	Tetsuya	M		x	
Yuza	Masaaki	M			

## Appendix C1 – Intel Statement

“My name is Siavash M. Alamouti representing Intel and I request that my following statement be include in the minutes.

A call for proposals was issued by IEEE 802.20 on Sept 26 2005 with a deadline for all complete proposals to be generated and submitted in complete form by Oct 28th, 2005. Essentially, only one month time was provided for all participants of 802.20 WG to generate proposals towards the technology selection process. The last three days of IEEE 802.20 meetings and the November 2005 meetings in Vancouver have shown that the proceedings may have been controlled by a single entity that has held control over the majority of the votes, with the result that every substantive decision was resolved in that entity's favor. As a result, we now have a single proposal for the FDD mode from a single entity.

The merged proposal for TDD is from 2 entities. These proposals have been put to vote prematurely without the consent of a number of companies who have asked repeatedly for the opportunity for more individuals to bring contributions and proposals for consideration by the WG. We believe that the WG includes 20 or more consultants who appear to be participating in block voting which is in strict violation of IEEE Standards Development Policies and Procedures.

We believe that:

- The schedule for evaluation, down-selection, and confirmation was improperly compressed to two meetings hence preventing many individuals in making contributions or proposals.

- We have found many ambiguities in the functionality, practicality, and possible performance of the proposals through our cursory review. This is of no surprise as these proposals did not go through the usual rigorous evaluation which is common practice in IEEE.

There was little opportunity for the industry to contribute to the proposals and address these shortcomings.

- Many questions and comments by individuals from Intel and other companies attending the meetings were not adequately addressed.

We believe these practices reflect poorly on IEEE and the leadership of this 802.20 work group.

In spite of many requests to not carry out the confirmation vote this session and also to allow for new proposals to be considered in March to allow for more industry participation, the WG ignored such reasonable requests. As anyone who participates in other IEEE activities knows, work group chairs routinely approve reasonable requests for additional time for comment and consideration of technical proposals, and to allow and encourage improvements to those proposals, not only because it is in the interest of IEEE, but out of common courtesy.

Adoption of these proposals under these conditions will likely tarnish the reputation of IEEE generally and the leadership of this work group in particular. We urge all individuals involved in 802.20 WG to support this motion and to pursue all options within IEEE to ensure a fair and inclusive process with wider participation in this WG.”

## **Appendix C2 – Minuted Questions and Answers**

**During Questions and Answers parts of the session a number of individuals requested that their questions be entered into the minutes. Given the number of requests and the need to also have the recorded responses, the Chair requested individuals provide their question for the minutes by email and responses by technology proponents were obtained in a similar manner. The following questions were submitted by email to the chair and the recording secretary. Responses to the questions will be obtained from the proponents by email.**

**TO BE ADDED TO THE MINUTES WHEN FINISHED LATER.**