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| Project | **IEEE 802.20 Working Group on Mobile Broadband Wireless Access**<br><**http://grouper.ieee.org/groups/802/20/** |
| Title | Revised **Draft Meeting Minutes, 802.20 Plenary Meeting - Session #23, Orlando, Florida 12-15 March 2007** > |
| Date Submitted | **2007-06-01** |
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| Re: | 802.20 Session #23 |
| Abstract | Draft minutes of Session #23 |
| Purpose | Record actions of the session |
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# Draft Minutes: IEEE 802.20 Meeting #23

**Caribe Royale Hotel, Orlando**
**March 12-15, 2007**

## Monday afternoon, March 12

At 1:30 the IEEE 802.20 meeting was opened by the chair, Arnie Greenspan. He began with the usual opening formality of reading the patent policy and list of inappropriate discussion topics.

### Introductions and affiliations
Attendees introduced themselves and indicated their affiliations. Attendance and affiliations are provided in Appendices 1 and 2.

### Work plan
Greenspan reviewed the work plan and the events of the London meeting. There was no quorum there but he felt that a lot had been accomplished nonetheless. The text of a systems integration PAR was drafted, but it has not yet been submitted to the Executive Committee. All but a dozen comments from letter ballots 1 and 2 were resolved; of these 10 were non-specific, leaving only two unresolved.

The chair expects to constitute a new letter balloting group shortly.

### Election of vice-chairs
Before the meeting, Mark Klerer and Jim Mollenauer volunteered to serve as vice chairs. The membership approved by a vote of 57 yes, 0 no, 2 abstain: passed. This result will be taken to the Oversight Committee for their approval.

There were no volunteers for the position of permanent recording secretary, which remains open.

### Report on London meeting
The chair read his report on the London meeting, in which he was gratified by the level of technical discussion that took place. Some question was raised in the Executive Committee about the need for a second PAR in that the first version of the standard should be sufficiently complete to enable implementation and operation.

### Agenda
A request was made to change the published agenda to reflect individual contributions and reissue the agenda; this was approved by the chair.

### Work plan
Greenspan presented the work plan from the London meeting. It was noted that the plan was changed to allow proposals by March 7 rather than 30 days before the plenary. Also, the work plan needed to list a WG letter ballot, between April and June of 2007; this was inserted. There was no one opposed, but there were several abstentions. Passed.

### Minutes of the Dallas meeting
The minutes had been approved in London but there was no quorum, so it was revoted here; no dissenting votes, but one abstention. Passed.

**Approval of the London comment resolutions**
There was an objection to calling the action on Letter Ballots 1 and 2 a re-affirmation on the grounds that there had never been an overall affirmation of the resolutions, just individual approvals.

*Motion: the WG affirms the resolution of comments for Letter Ballots 1 and 2 as posted on the IEEE 802.20 web site as of March 12, 2007.  An affirmative vote does not imply agreement with all resolutions.*
Moved: Jerry Upton; seconded: Lynne Dorward.

The chair explained that the motion indicated the end of discussion on this topic and the working group should go on.  It was pointed out that this approval could be misconstrued as an endorsement of these ballots, since the balloting group for letter ballots is being reconstituted.

**Revote**
After the break the chair indicated that the previous motions should have been taken as full roll calls and therefore they would have to be revoted.  He read the voting members list, recording votes from those present.  The results of the revote were:
To approve the amended work plan:  56 yes, 0 no, 10 abstain: passed. (VOTE 1)
To approve the Dallas minutes: 58 yes, 0 no, 2 abstain: passed. (VOTE 2)
To approve the comment resolutions from the London meeting:  45 yes, 4 no, 11 abstain: passed. (VOTE 3)

Details of roll-call votes are available from the chair on request.

**Channel model**
Editorial changes were made to the channel model document at the London meeting.  The modified version was posted on the web site as 802.20-07/05. Motion to approve this and make it a permanent document by Nancy Bravin, seconded by Ayman Naguib.  49 yes, 1 no, 8 abstain: passed.  (VOTE 4)

The new version of the channel model document will be permanent document PD-08r1.

A comment was made that although the changes appeared to be 'editorial', there were technical implications regarding how the channel coefficients should be generated.

**London minutes**
Motion by Jerry Upton to approve the London minutes, seconded by Ayman Naguib.  Several changes to the minutes were requested; most of these were adopted.  The motion was amended to accept the new version of the minutes. Results: 46 yes, 0 no, 15 abstain: passed. (VOTE 5)

The revised minutes are on the web site as 802.20 - 07/04r1.

**January 2008 meeting:**
This is planned to be a joint meeting with other wireless groups in Taipei in January 2008.

**Monday evening**
The evening session was reconvened at 8:30.

**IMT-Advanced**
The IEEE 802.18 TAG has requested input with respect to IMT-Advanced. In response, there was a presentation submitted.

**C802.20-07/21  Proposed inputs to 802.18 for IMT.Advanced**  Jim Tomcik and Tom Wasilewski, Qualcomm.

This presentation proposed that 802.20 submit its approved Systems Requirements document to 802.18, since there is not yet an official set of IMT-Advanced requirements. It was also proposed that the 802.20 Channel Models document be submitted as well, since it handles both SISO and MIMO systems.

Information was brought to the working group's attention from a 3GPP document released today which indicated that a spatial channel model was needed. It was noted that this type of model has not been used by 802.20.

The chair felt that there was no downside to providing our document to IMT-Advanced. Arguments in favor of sending our current model pointed out that the MIMO material in the working group document does in fact address spatial issues. However, concern was expressed that additional wording needed to be added to the documents, lest 802.20 appear at a disadvantage with respect to possible submissions to 802.18 from other 802 working groups.

*Motion: Approve submitting PD-06r1, noting it is not a proposal for IMT Advanced requirements values but as an input for the framework and definitions development; and submitting PD-08r1 as an approach to modeling both SISO and MIMO channels, and proposes a methodology to relate the two types of channel models.*
Moved: Jerry Upton; seconded, Jim Tomcik.  Results: 41 yes, 0 no, 5 abstain: passed. (VOTE 6)


**Tuesday morning, March 13**

Arnie Greenspan opened the meeting at 8:30 with a review of last evening's session on a contribution to 802.18 re IMT-Advanced.

**UMBFDD proposal**
Al Jette introduced the proposal, going over the presentations to be made this morning.

The various presentations are briefly summarized in these minutes; for more details, please consult the relevant documents.

**C802.20 –07/07  UMBFDD Summary Classification and Package Overview** Al Jette, Shirish Nagaraj, and Val Oprescu, Motorola
This contribution indicated the type of proposal: FDD only, a complete proposal, compliant with the 802.20 requirements.

**C802.20 –07/10  UMBFDD Draft Technology Overview**  Al Jette, Shirish Nagaraj, and Val Oprescu, Motorola

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This presentation provided an extensive set of slides with an overview of UMBFDD, which stands for Ultra Mobile Broadband Frequency-Division Duplex. The proposal is based on recent work in 3GPP2, which has taken place over the last 14 months with contributions from many companies. In its present form in 3GPP2 it is in 10 documents, all of which are in Stage 3, which specifies detailed protocols and procedures.

The architecture shown involved PHY and MAC layers topped by a radio link layer and an application layer above that. Several control planes with different functionality were included.

**Physical layer**, presented by Shirish Nagaraj:
The physical layer on the downlink (forward link) is based on adaptive coding and modulation with resource-adaptive hybrid ARQ and turbo coding. Modulations up to 64-QAM are used, with OFDMA and MIMO. The uplink (reverse link) is also based on OFDMA, but with parts operating in pre-coded CDMA. Detailed descriptions of the various control channels and data channel were provided. Broadcast channels are also allowed for.

**MAC layer**, presented by Val Oprescu:
Oprescu provided a description of the MAC layer, including the mandatory 8-way interlace and how it operates with respect to HARQ.

**Break**: from 10:35 to 11:05 AM; Oprescu's presentation resumed afterward.

Descriptions of the broadcast channel operation and the security protocols followed. Encryption is done with AES using a 128-bit key. The stream protocol can handle up to 32 streams. The route control protocol activates and deactivates protocol stacks in both AN and AT. Other protocols such as initialization were also discussed. The Connected state has a Semi-Connected substate in which the AT can receive but not transmit.

**C802.20 –07/11 UMBFDD Draft Technology Specification** Al Jette, Shirish Nagaraj, and Val Oprescu, Motorola; presented by Al Jette:
This contribution provided references to the relevant documents in 3GPP2. UMBFDD is currently in the approval process within 3GPP2. Revision 1 of this document corrects an error in the original submission.

**C802.20 –07/12 UMBFDD Evaluation Report 1** Al Jette, Shirish Nagaraj, and Val Oprescu, Motorola; presented by Shirish Nagaraj:
This presentation dealt with simulation results for the UMBFDD proposal. Simulations were done at pedestrian speed (3 km/hr) and vehicular speed (120 km/hr) and with modulations up to 64-QAM. The simulated antenna system included different numbers of elements in a linear array.

The meeting was adjourned for lunch at 1:00 PM.


**Tuesday afternoon**

**March 2008 site**
Discussion of preferences for March 2008 meeting site. Voting for preferred locations (voting for more than one was permitted): Vancouver 31, Chicago 8, San Francisco 29, Chicago O'Hare 2, Orlando 13, Dallas airport 0.

Returning to technical proposals:

**C802.20 –07/15  LDPC Code Proposal – Technology Overview**   Sung-Eun Park, Seunghoon Choi, Thierry Lestable, and Anna Tee, Samsung
This proposal discussed the benefits of using LDPC as the coding method. Considerations for various types of LDPC codes were presented; interaction with incremental-redundancy HARQ was taken into account.  The proposal called for the LDPC to be used for values of k larger than 512, while keeping the rate 1/5 turbo code for values of k larger than 128.

**C802.20-07/19  Partial proposal on channel multiplexing**  Anna Tee, Zhouyue Pi, Jiann-an Tsai, Cornelius van Rensburg, Yinong Ding, and Farooq Khan, Samsung
This proposal dealt with multiplexing several user data streams in OFDMA, supporting DRCH (symbol hopping) or BRCH (block hopping) channel users simultaneously. The goal is to optimize the system performance through frequency-selective scheduling and frequency diversity.. A new file structure which is flexible in size with lower pilot overhead was also described in the contribution.

**C802.20-07/19  LG Electronics Components Proposal for 802.20 MBWA**  Young C. Yoon, LG Electronics
This presentation called for a number of individual components in the standard, including:
- RL Frame Design Enhancement during Silence Periods
- Shared Signaling Control Assignment Channel (FSSACH)
- Acknowledgement Channel for Shared Signaling Channel (R-SSCH ACKCH)
- Flexible LDPC Code
- MIMO
- Interlace switching

The interlace-switching algorithm is similar to that used in the **UMBFDD** presentation.

**C802.20-07/21r1 Proposed Resolution to 802.20 Ballot Comment on Minimum Performance Parameters**  Jim Tomcik, Qualcomm
This proposal was in response to a ballot comment that the draft provided insufficient information in the area of minimum performance.  The requirements proposed here were drawn from IEEE 802.16 (OFDMA option) and 802.16e.  This contribution covered interoperability requirements and left regulatory and equipment performance considerations for the new PAR proposed in London.

The session adjourned at 6:00 PM.

## Wednesday morning, March 14

Arnie Greenspan opened the meeting at 8:10 with a review of the 802.18 session last night in which submission to IMT-Advanced was discussed.  He requested volunteers for a task group that would work with IMT-Advanced on a continuing basis.

Returning to contributions:

**C802.20-07/18  Partial proposal to support flexible, spectrally efficient multi-carrier Mode** Anna Tee, Zhouyue Pi, Jiann-an Tsai, Cornelius van Rensburg, Yinong Ding, Farooq Khan, Samsung Telecommunications
This contribution pointed out that in multi-carrier (OFDM and OFDMA) transmission, the need for guard bands is reduced.

**C802.20-07/20  Irregular Repeat-Accumulate LDPC Code Proposal – Technology Overview**
Thierry Lestable, Joseph Cleveland, and Anna Tee, Samsung
This presentation proposed using irregular repeat-accumulate LDPC codes for small packets. Simulations showed a gain of 0.5 to 1.0 dB relative to convolutional coding.

Comments were made that under some conditions the gain from such coding is only ¼ dB. In the discussion of the morning's contributions that followed, the presenters said that they had contributed the material in their presentations to 3GPP2.

A question was also asked about the rate compatible design and the performance of IRA-LDPC codes in fading channels.  Proponents responded that results on fading channels would be made avalable as soon as verified with colleagues.  A request was made for written questions and answers on technical details of these proposals, which could be provided via the email reflector.  The chair replied that he expected that issues would be resolved at this meeting.

Discussion continued on the advisability of issuing performance requirements under a separate PAR. The following comments were made:
- Equipment built before the availability of such requirements had sometimes caused network problems.
- Such network problems were very unlikely in licensed wireless systems.
- All the people needed for a full discussion of performance issues were not at this meeting.

**C802.20-07/14  UMBFDD Draft Technology Overview** Al Jette, Shirish Nagaraj, and Val Oprescu, Motorola
This contribution compared the UMBFDD proposal with the MBFDD proposal.  Al Jette introduced the topic; then Val Oprescu reviewed the correspondences between the two at the MAC layer.  There are differences in the transmission modes and control messages used under various circumstances, and there are also differences in the superframe structure.

**Summary of 802.20 Proposals and Relationships** Jim Tomcik, Qualcomm
Following a short break, Jim Tomcik provided a summary with a Venn diagram of the various proposals and how they relate to each other.  He felt that many of the pointswere compatible with the UMBFDD proposal.  Some, concerning LDPC, were involved in harmonization discussions elsewhere.  A final set of contributions was distinct from the UMBFDD proposal.

Tomcik felt that there was considerable overlap of the UMBFDD proposal with the current 802.20 draft.  He recommended harmonizing the UMBFDD proposal with the current draft, which should satisfy a number of the proposals; other proposals could be dealt with later, Ultimately, only the irregular-repeat-accumulate LDPC material would not be accommodated.

It was noted with thanks that this presentation had moved the work of the committee forward substantially.  However, the following objection was requested to appear in the minutes:

*'The motion is to adopt some decisions on the new proposals presented yesterday and this morning: (1) The decision that Proposal "Tee-4" not to be included currently, because there were no performance results on fading channels, was unfair. The proposal has provided simulation results that show the performance gain over the current design in the standard draft.  Additional simulation data for performance on fading channels has been requested by WG members during the discussion just about 3 hours prior to the decision. Thus, it was unfair to make a decision at this time, to exclude Proposal "Tee-4" based on the reasons stated in Contribution C802.20-07/27; (2) Details of the design in "Tee-1" are significantly different from those in "Jette-1".  They should also be considered for adoption in 802.20.  Furthermore, further data has been re-*

*quested from WG members regarding the details on some operation scenarios. The decision on this proposal should be deferred pending further data.'*

It was countered that the guard channel functionality was actually there, though implemented differently. It was also noted that the need for harmonization with the existing TDD material should be emphasized more strongly.

Additional comments noted that LDPC was being harmonized elsewhere, and implementers should need to deal with only one version of LDPC in their products. It should not be addressed here until after such harmonization is complete. Modifications to the overlap diagram with respect to how it showed LDPC was requested.

The chair announced that copyright permission had been received from TIA, the body representing 3GPP2.

The group broke for lunch at 12:00.

## Wednesday afternoon

When 802.20 resumed at 1:00, the chair called once more for volunteers to serve on an IMT-Advanced task group under 802.18. It will meet tomorrow morning.

Discussion on the overlap diagram in Appendix 3 continued. The diagram showed harmonization of the QFDD proposal with Jette's 3GPP2-based proposal, with QTDD, Best Wine, and the last two of Anna Tee's proposals left outside. The following opinions were voiced:
- The minimum mandatory set of elements should be determined, redundant elements should be dropped out, and then completeness and conformity verified before a letter ballot.
- There was objection to some features and terminology in the revised diagram.
- A preference was expressed for the original version of the diagram prior to changes. Objections to other features of the revised diagram were stated.

A recommendation was made that the steps spelled out in text should be considered without concentrating attention on the terminology used in the diagram.

The chair asked for motions on where the group should go next.

*Motion: The 802.20 Working Group adopts the following principles for revising the current baseline draft for the next Letter Ballot.1. Harmonize the wideband FDD baseline with the UMB proposal presented in Contributions C802.20-07/09-07/11.2. Adopt the other changes as shown in document number C802.20-07/27.3. Harmonize the wideband TDD with the revised and harmonized FDD draft.*

Moved by Jerry Upton; seconded by Al Jette.

Jerry Upton moved to call the question, seconded by Nancy Bravin. 48 yes, 10 no, 2 abstain: passed.

A roll call vote on the main motion resulted in 56 yes, 8 no, 3 abstain: passed. (VOTE 7)

**Patent disclosure** The chair indicated that information on patents disclosed as relevant to IEEE 802 standards was available on a web site: http://standards.ieee.org/db/patents/pat802_17.html.

The chair then constituted a small editing group consisting of representatives of companies with proposals, along with the technical editor, to put together a new draft. A schedule for producing this draft was discussed and a proposal was made for a letter ballot starting on April 9. Members of the editing group include Val Oprescu, Anna Tee, Radhakrishna Canchi, and Young Yoon.

It was pointed out that there is a 4-hour rule in the 802.20 Policies and Procedures with respect to motions that affect the draft. The chair responded that he had considerable flexibility to ignore the 802.20 P&P based on the trust placed in him by the IEEE Standards Board. It was then indicated that the motion was presented at 1:22 and voted on at approximately 2:00 PM.

It was also noted that the rule had never been applied in the past with perhaps one exception.

The chair asked for a vote of the group on whether we should revote after waiting for the 4-hour interval. 6 yes, 51 no, 1 abstain: failed.

A question was asked about how the task group would operate. The response from the technical editor noted that it would be by consensus, with the final judgement resting with himself as editor. He expected that there would be no technical changes. A question was asked as to whether the existing TDD material could be harmonized with new FDD material without making technical changes. The technical editor agreed that it would be difficult, but any technical changes would be discussed subsequently in the full 802.20 meeting.

It was then pointed out that going to letter ballot in the past without a working group vote had caused problems.

The following motion was then proposed:

***Motion:*** *The working group empowers the editing group to create a revised draft for an April 11th letter ballot, subject to the SASB approving a letter ballot pool.*

Moved: Jerry Upton; seconded, Radhakrishna Canchi.

In response to a question, the chair indicated that the Standards Board reserved the right to approve the voting membership pool when the 802.20 PAR was extended.

It was noted that this motion did not allow for approval of a completed draft before sending it out for letter ballot. It was pointed out that the 802.20 P&P specify that a task group's output should be approved by the WG before it goes out to letter ballot. It was pointed out that the group was an editing group, not a task group.

Arnie Greenspan indicated that voting on this motion could be deferred until tomorrow; he would consult with others on this issue in the meanwhile. He felt that it was more important to get the standard done in an expeditious way than to admit delays due to a legalistic approach to the rules.

Arguments were submitted noting that the letter ballot process was a formal and onerous one, and that going to letter ballot prematurely could actually lengthen the standard development process. It was also pointed out that a letter ballot starting on April 11 could not be concluded by the May meeting.

Adjourned at 4:40.

**Thursday morning, March 15**

Arnie Greenspan opened the meeting at 9:10, indicating that the draft would be progressed by using a "practice ballot" which has been used in other groups for drafts that are not quite ready to go to an official letter ballot. The procedures will be the same as a regular letter ballot, but without recirculation. The working group must vote to go to an official letter ballot; comments received during the practice ballot go into a database and will be circulated with the draft.

Greenspan indicated that the WG will hold a vote today to authorize the editor to create Draft 3.0. Comments will be resolved at the May meeting, at which time a second practice ballot can be authorized. In the best case, at the July meeting it will be decided by the WG whether to hold an official letter ballot or another practice ballot.

*Motion: It is moved that the WG authorize the commencement of a 30-day practice ballot. This practice ballot will address the revised draft assembled by the working group's editing group. The revised draft will include the submissions identified in presentation C802.20-07/27 and approved by roll call vote by the WG on Wednesday 3/14/07; details of the Chair's proposal are included in the minutes.* (See Appendix 4.)

Moved: Jerry Upton; seconded: Nancy Bravin.

An objection was submitted that the Thierry Lestable, Joseph Cleveland, and Anna Tee proposals had not been given adequate attention and a request was made for an opportunity to make an additional presentation. The chair responded that there was still opportunity to get the material included. In response to questions, the technical editor stated that he expected that there would be so many changes in the document that redlining them would not be useful, but perhaps unchanged sections could be so indicated.

Al Jette moved to call the question; Nancy Bravin seconded. No objection. The chair explained that the motion was intended to invoke the editing tasks approved by motion yesterday. The chair also pointed out that in effect this motion will also constitute an endorsement and implicit revote of the Vote 7 that had an objection to require a 4 hour waiting period since this motion specifically mentions the editing plan that was subject of roll call vote 7.

Voting on the main motion: 49 yes, 5 no, 3 abstain: passed. (VOTE 8)

The chair announced that the IMT-Advanced meeting with 802.18 would take place at 1:00. He congratulated the group on the amount that had been accomplished.

A request was made by Anna Tee for additional time to make a presentation with additional material. The chair invited an informal presentation without waiting for slides to be posted. It will be posted as **C802.20-07/26r1**. She presented simulation results for irregular-repeat-accumulate LDPC with Algorithm B, at pedestrian speed. These showed that IRA outperformed convolutional coding by 1 to 2 dB at an error rate of $3 \times 10^{-2}$.

Comments from the floor requested more extensive simulations, using a wider range of conditions.

Following the morning break, the chair brought up the work plan, which will be document **802.20-07/03r2** after this revision. He noted that in some cases references to letter ballots should be changed to practice ballots. A few other changes were made, following suggestions from the floor.

The chair described the IEEE sponsor ballot process, which is now administered by the IEEE-SA with its My Ballot computer system.

The revised work plan was approved by show of hands with 51 yes, 0 no, and 2 abstaining. The meeting was adjourned at 11:05.

**Appendix 1**

**Overall Session Attendance and Participation Credit**

| | A | B | J | K | R | S | T | U | W | X | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | **Last Name** | **First Name** | **Jan07 Voters** | **Mar07 Voters*** | **Nov05** | Jan06 | **Mar06** | May06 | **Nov 06** | Jan07 | **Mar 07** |
| 2 | Agis | Edward | M | M | 1 | 1 | 1 | 1 | 1 | | |
| 3 | Agrawal | Avneesh | M | M | 1 | 1 | 1 | | | | |
| 4 | Ahmadi | Sassan | M | M | 1 | | 1 | 1 | 1 | | |
| 5 | Ahn | Jae Young | M | M | 1 | 1 | 1 | 1 | | | |
| 6 | Alamouti | Siavash | M | M | 1 | 1 | 1 | 1 | | | |
| 7 | Ali | Murtaza | M | M | 1 | 1 | 1 | | | | |
| 8 | Alphonse | Jean | M | M | 1 | 1 | 1 | | | | |
| 9 | Arefi | Reza | M | M | 1 | 1 | 1 | 1 | | | |
| 10 | Bajaj | Rashmi | M New | M New | | | 1 | | 1 | | |
| 11 | Barriac | Gwen | M | M | 1 | 1 | 1 | | | 1 | 1 |
| 12 | Bavafa | Moussa | M | M | | | 1 | 1 | 1 | | |
| 13 | Bernstein | Jeffrey | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 14 | Bims | Harry | No | No | | | | | | | |
| 15 | Bravin | Nancy | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 16 | Budianu | Petru | No | No | | | | | | | |
| 17 | Bussey | Chris | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 18 | Cai | Sean | M | **No** | 1 | 1 | 1 | | | | |
| 19 | Canchi | Radhakrishna | M | M | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | Carlo | Jim | M | M | 1 | 1 | 1 | | | | |
| 21 | Carneiro | Edson | M | **No** | | 1 | 1 | | | | 1 |
| 22 | Carson | Peter | M | M | 1 | 1 | 1 | | | 1 | 1 |
| 23 | Castell | Harold P. | M | M | 1 | 1 | 1 | | 1 | | 1 |
| 24 | Chae | Suchang | M New | M New | | | 1 | 1 | | | |
| 25 | Chen | Yao | No | No | | | | 1 | | | |
| 26 | Cho | Juphil | M | M | | 1 | 1 | | 1 | | |
| 27 | Choi | Hyoungjin | M New | M New | | 1 | 1 | | | | |
| 28 | Choi | Yang-Seok | M | M | 1 | 1 | 1 | 1 | | | |
| 29 | Chong | Chia-Chin | M New | M New | 1 | 1 | | 1 | | 1 | |
| 30 | Chun | Jin Young | M | M | 1 | 1 | 1 | | | | |
| 31 | Chung | Jaeho | M | M | | 1 | 1 | | 1 | | |
| 32 | Cleveland | Joseph | M | M | 1 | 1 | | | 1 | | |
| 33 | Collins | Robert | No | No | | | | | | | |
| 34 | Comstock | David | M New | M New | | 1 | 1 | 1 | | | |
| 35 | Dean | Chris | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 36 | **Dhaliwal** | **Upkar** | No | **No** | | | | | | | 1 |
| 37 | Dodd | Donald | M | M | 1 | | 1 | | | | |
| 38 | Dorward | Lynne | M | M | 1 | 1 | 1 | | | | 1 |
| 39 | Dunn | Doug | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 40 | Eilts | Henry | M | M | 1 | 1 | 1 | 1 | 1 | | |
| 41 | Epstein | Mark | M | M | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 42 | **Feder** | **Peretz** | M | M | 1 | 1 | 1 | | | | |
| 43 | Ferguson | Alistair | M | M | 1 | | 1 | | | | |
| 44 | Fong | Mo-Han | No | No | 1 | | | | | | |
| 45 | Freeland | Graham | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 46 | Gal | Dan | M | M | 1 | 1 | 1 | | | | |
| 47 | Garcia-Alis | Daniel | M | M | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 48 | Garg | Deepshikha | M | M | 1 | 1 | 1 | | 1 | | 1 |

4/2/2007

| | A | B | J | K | R | S | T | U | W | X | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | Gillies | Donald | No | No | | | | | | | 1 |
| 50 | Gomes | Eladio | M | M | | 1 | 1 | | 1 | | 1 |
| 51 | Gore | Dhananjay | M | M | | 1 | 1 | | 1 | 1 | |
| 52 | Gorodetsky | Svetlana | M | M | 1 | 1 | 1 | | 1 | | 1 |
| 53 | Gowaikar | Radhika | No | No | | | | | | | |
| 54 | Gorokhov | Alexei | M | M | 1 | 1 | 1 | | 1 | 1 | |
| 55 | Greenspan | Arnie | M | M | | | | | 1 | 1 | 1 |
| 56 | Guo | Qiang | M | M | 1 | 1 | 1 | 1 | | | |
| 57 | Haug | John | No | No | | | | | | 1 | |
| 58 | Hou | Victor | M | M | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 59 | Hu | Rose | M | M | | 1 | 1 | 1 | 1 | | |
| 60 | **Hu** | **Teck** | M | **No** | | | 1 | 1 | | | |
| 61 | Humbert | John | M New | M New | 1 | 1 | | | | | |
| 62 | Huo | David | M | M | 1 | 1 | 1 | | | 1 | |
| 63 | Hur | Yerang | M New | M New | | | 1 | 1 | | | |
| 64 | Ibbetson | Luke | M | M | 1 | | 1 | | 1 | | |
| 65 | Iimuro | Kazuyoshi | M | M | 1 | 1 | 1 | | 1 | 1 | |
| 66 | Ikeda | Yutaka | No | No | | | | | 1 | | |
| 67 | Ishida | Kazuhito | No | No | | | | | | 1 | 1 |
| 68 | Jeong | Byung-Jang | M | M | 1 | 1 | 1 | | 1 | | |
| 69 | Jette | Alan | M | M | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 70 | Ji | Baowei | M | M | | | 1 | 1 | 1 | | |
| 71 | Ji | Tingfang | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 72 | Jones | Dennis | M | M | 1 | 1 | 1 | | | | 1 |
| 73 | Joo | Pan Yuh | No | No | | 1 | | 1 | | | |
| 74 | Kadous | Tamer | M | M | 1 | 1 | 1 | | 1 | 1 | |
| 75 | Kalhan | Amit | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 76 | Kanai | Takeo | No | No | | | | | 1 | | |
| 77 | Kang | Hyunjeong | M New | M New | | 1 | 1 | | | | |
| 78 | Katayama | Masahide | No | No | | | | | 1 | | |
| 79 | Khademi | Majid | M | M | 1 | 1 | 1 | | 1 | | |
| 80 | Khandekar | Aamod | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 81 | Khatibi | Farrokh | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 82 | Kiernan | Brian | M | M | 1 | 1 | 1 | 1 | | | |
| 83 | Kim | Hyeon Soo | M | M | | | 1 | 1 | 1 | | |
| 84 | Kim | Jae-Ho | M New | M New | | | 1 | 1 | | | |
| 85 | Kim | Peter J.W. | M New | M New | | 1 | 1 | | | | |
| 86 | Kim | Tae Young | M | M | | | 1 | 1 | 1 | 1 | |
| 87 | Kim | Yong Ho | M | M | 1 | 1 | 1 | | 1 | | |
| 88 | Kim | Young-Ho | M New | M New | | 1 | 1 | 1 | | 1 | |
| 89 | **Kim** | **Young Kyun** | M | **No** | | 1 | 1 | | | | |
| 90 | Kim | Youngsoo | M | M | | | 1 | 1 | 1 | | |
| 91 | Kimura | Shigeru | M | M | 1 | 1 | 1 | | 1 | | |
| 92 | Kitahara | Minako | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 93 | Kitamura | Takuya | M New | M New | 1 | 1 | | 1 | | | |
| 94 | Klerer | Mark | M | M | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 95 | Knisely | Douglas | M | M | 1 | 1 | 1 | 1 | 1 | | 1 |
| 96 | Kolze | Tom | M | M | | | 1 | 1 | 1 | | 1 |

4/2/2007

| | A | B | J | K | R | S | T | U | W | X | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | Koo | Changhoi | M | M | **1** | 1 | **1** | 1 | **1** | | |
| 98 | Koplyay | Ferenc | M New | M New | | | **1** | 1 | | | |
| 99 | Kujawski | Fred E. | No | No | | | | | **1** | | |
| 100 | Kwon | Dong Seung | M New | M New | **1** | 1 | | 1 | | | |
| 101 | Kwon | Young Hyoun | M | M | **1** | 1 | **1** | | | | |
| 102 | Lalaguna | Pablo | M | M | **1** | 1 | **1** | | **1** | | |
| 103 | Lawrence | Lisa | M | M | **1** | 1 | **1** | | | | **1** |
| 104 | Lee | Heesoo | M | M | **1** | 1 | **1** | 1 | **1** | 1 | **1** |
| 105 | Lee | Jungwon | M New | M New | | 1 | **1** | | | | |
| 106 | Lee | Mihyun | M | M | | 1 | **1** | | **1** | 1 | |
| 107 | Lee | Sungjin | M New | M New | | 1 | **1** | | | | |
| 108 | Lee | Wook-Bong | M | M | **1** | 1 | **1** | 1 | | | |
| 109 | Li | Jun | M New | M New | **1** | | | 1 | | | |
| 110 | Li | Thomas | No | No | | 1 | | 1 | | | |
| 111 | Li | Yingyang | M | M | | | **1** | 1 | **1** | | |
| 112 | Li | Yong | No | No | | | | | | | **1** |
| 113 | Lim | Hyoung Kyu | M | M | **1** | 1 | **1** | 1 | | | |
| 114 | Lin | Jiezhen | M | M | **1** | 1 | **1** | 1 | | | |
| 115 | Liu | Walter | M New | M New | | | **1** | 1 | | | |
| 116 | Lu | Jianmin | No | M New | **1** | 1 | | 1 | | | |
| 117 | Ma | Steven | M | M | **1** | 1 | **1** | 1 | | | |
| 118 | Maez | Dave | No | No | | | | | | | |
| 119 | Martynov | Irina | M | M | **1** | 1 | **1** | | **1** | 1 | **1** |
| 120 | Martynov | Michael | M | M | **1** | 1 | **1** | | **1** | 1 | **1** |
| 121 | McGinniss | David | M New | M New | | 1 | **1** | | | | |
| 122 | McMahon | Anthony | M | M | **1** | 1 | **1** | | **1** | 1 | **1** |
| 123 | McMillan | Donald | M | M | **1** | 1 | **1** | | **1** | | |
| 124 | Miyazono | Max | M | M | **1** | | **1** | | **1** | | **1** |
| 125 | Mollenauer | James | M | M | **1** | 1 | **1** | 1 | **1** | | **1** |
| 126 | Murakami | Kazuhiro | M | M | **1** | 1 | **1** | | **1** | | **1** |
| 127 | Murphy | Peter | M | M | **1** | 1 | **1** | | | | |
| 128 | Naaman | Laith | M New | M New | | 1 | **1** | | | | |
| 129 | Nabar | Rohit | M | M | | 1 | **1** | | **1** | | |
| 130 | Nagai | Yukimasa | M New | M New | **1** | | **1** | | | | |
| 131 | Nagaraj | Shirish | No | No | | | | | | | **1** |
| 132 | Naguib | Ayman | M | M | **1** | 1 | **1** | | | 1 | |
| 133 | Naidu | Mullaguru | M | M | **1** | 1 | **1** | | **1** | 1 | **1** |
| 134 | Nakamura | Kenichi | M | M | | 1 | **1** | | **1** | | |
| 135 | Nakamura | Tetsuya | M | M | **1** | 1 | **1** | | **1** | 1 | |
| 136 | Nakano | Shinji | M | M | **1** | 1 | **1** | | **1** | 1 | |
| 137 | Nguyen | Nha | M | M | **1** | 1 | **1** | | **1** | 1 | **1** |
| 138 | Noh | Taegyun | M | M | | | **1** | 1 | **1** | | |
| 139 | Novick | Fred | M | M | **1** | 1 | **1** | | **1** | | **1** |
| 140 | O'Brien | Francis | M New | **M** | **1** | 1 | | | | 1 | **1** |
| 141 | Odlyzko | Paul | M | M | **1** | 1 | **1** | 1 | | | |
| 142 | Oguma | Hiroshi | M | M | **1** | | **1** | 1 | **1** | | |
| 143 | Oh | Changyoon | M New | M New | | | **1** | 1 | | | |
| 144 | Panicker | John | M New | M New | | | **1** | 1 | | | |

| | A | B | J | K | R | S | T | U | W | X | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | Park | Chul | M | M | | 1 | 1 | 1 | 1 | | |
| 146 | Park | DS | M | M | | | 1 | 1 | 1 | | |
| 147 | Park | Jeongho | M | M | | | 1 | 1 | 1 | | |
| 148 | Park | Sung-Eun | No | No | | | | | | | 1 |
| 149 | Park | Won-Hyoung | M | M | 1 | 1 | 1 | 1 | | | |
| 150 | Patel | Chirag | No | No | | | | | | | |
| 151 | Patzer | Steve | M | M | 1 | 1 | 1 | 1 | | | |
| 152 | Pfann | Eugen | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 153 | Pirhonen | Riku | M | M | 1 | 1 | 1 | 1 | 1 | | 1 |
| 154 | Pittampalli | Eshwar | M New | M New | 1 | 1 | | | | | |
| 155 | Poisson | Sebastien | M | M | 1 | 1 | 1 | | 1 | | 1 |
| 156 | Prakash | Rajat | M | M | 1 | 1 | 1 | 1 | 1 | 1 | |
| 157 | Preece | Rob | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 158 | Puthenkulam | Jose | M | M | 1 | 1 | 1 | 1 | | | |
| 159 | Qian | Xiaoshu | M | M | 1 | 1 | 1 | 1 | | | |
| 160 | Ragsdale | James | M | M | 1 | 1 | 1 | 1 | 1 | | 1 |
| 161 | Rajadurai | Rajavelsamy | M New | M New | | | 1 | 1 | | | |
| 162 | Rajkumar | Ajay | M | M | 1 | 1 | 1 | 1 | | | |
| 163 | Sampath | Hemanth | M | M | 1 | 1 | 1 | | 1 | 1 | |
| 164 | Sano | Masato | M | M | 1 | 1 | 1 | | 1 | 1 | |
| 165 | Santhanakrishnan | Anand | M New | M New | | | 1 | 1 | | | |
| 166 | Sasaki | Shigenobu | M | M | | | 1 | 1 | 1 | | |
| 167 | Seo | Bangwon | M | M | | | 1 | 1 | 1 | | |
| 168 | Shields | Judy | M | M | 1 | 1 | 1 | | | | 1 |
| 169 | Shively | David | M | M | 1 | | 1 | | 1 | | 1 |
| 170 | Shono | Takashi | M | M | | 1 | 1 | 1 | 1 | | |
| 171 | Sihn | Gyung Chul | M | M | | | 1 | 1 | 1 | | |
| 172 | Sivanesan | Kathiravetpillai | M | M | | 1 | 1 | | 1 | | |
| 173 | Song | Young Seog | M | M | | | 1 | 1 | 1 | | |
| 174 | Sorensen | Henrik | M New | M New | | 1 | 1 | | | | |
| 175 | Springer | Warren | M | M | 1 | | 1 | | | | |
| 176 | Srinivasan | Roshni | M | M | | | 1 | 1 | 1 | 1 | |
| 177 | Staver | Doug | M | M | 1 | | 1 | | | | 1 |
| 178 | Stuby | Richard | M | M | | 1 | 1 | 1 | 1 | | 1 |
| 179 | Suh | Mark | M | M | | | 1 | 1 | 1 | 1 | 1 |
| 180 | Sun | Jing | No | No | | | | | | | 1 |
| 181 | Surcobe | Valentin | M | M | | | 1 | 1 | 1 | | 1 |
| 182 | Suzuki | Tomohiro | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 183 | Tan | Teik-Kheong | No | No | | | | | 1 | | |
| 184 | Teague | Harris | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 185 | Tee | Lai-King Anna | M | M | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 186 | Tomcik | James | M | M | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 187 | Ulupinar | Fatih | M | M | 1 | 1 | 1 | | | | |
| 188 | Upton | Jerry | M | M | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 189 | Vaidya | Rahul | M New | M New | | | 1 | 1 | | | |
| 190 | Valbonesi | Lucia | M | M | 1 | 1 | 1 | 1 | | | |

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| | A | B | J | K | R | S | T | U | W | X | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 191 | Valls | Juan Carlos | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 192 | Vijayan | Rajiv | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 193 | Vivanco | Silvia | M | M | 1 | | 1 | | 1 | 1 | 1 |
| 194 | Wasilewski | Thomas | M | M | | 1 | 1 | | 1 | | 1 |
| 195 | Watanabe | Fujio | M New | M New | 1 | | | | | | 1 |
| 196 | Wieczorek | Alfred | M | M | 1 | 1 | | 1 | | | 1 |
| 197 | Wilson | Joanne | M | M | 1 | 1 | 1 | 1 | 1 | 1 | |
| 198 | Wu | Geng | M New | M New | 1 | | 1 | 1 | | | |
| 199 | Yaghoobi | Hassan | M | M | 1 | 1 | 1 | 1 | | | |
| 200 | Yallapragada | Rao | M | M | 1 | 1 | 1 | | 1 | 1 | 1 |
| 201 | Yeh | Choongil | M | M | 1 | 1 | 1 | 1 | 1 | | |
| 202 | Yin | Hujun | M | M | 1 | 1 | 1 | 1 | | | |
| 203 | Yoon | Young | No | No | | | | | | | 1 |
| 204 | Youssefmir | Michael | M | M | 1 | 1 | 1 | | 1 | | |
| 205 | Yuda | Tetsuya | M | M | 1 | 1 | 1 | | | | |
| 206 | Yun | Jungnam | M New | M New | | | 1 | 1 | | | |
| 207 | Yuza | Masaaki | M | M | 1 | | | | 1 | | |
| 208 | Zhang | Xin | No | No | | | | | | | 1 |
| 209 | Zhou | Yan | No | No | | | | | | | |
| 210 | Zhu | Peiying | M New | M New | 1 | | 1 | | | | |
| 211 | | | | Affiliation needed before attendance for March 07 meeting can be granted | | | | | | | |

**Appendix 2**

**Affiliation of attendees**

## 802.20 Declarations of Affiliation

| 0 | Last Name | First Name | Employer | Affiliation | Ultimate Parent of Employer | Ultimate Parent of Affiliation | URL1 |
|---|---|---|---|---|---|---|---|
| 1 | Agis | Ed | Intel Corporation | Same | Not Applicable | Not Applicable | www.intel.com |
| 2 | Agrawal | Avneesh | Qualcomm, Incorporated | Same | Not Applicable | Not Applicable | www.qualcomm. com |
| 3 | Ahmadi | Sassan | Intel Corporation | Intel Corporation | Intel Corporation | Intel Corporation | www.intel.com |
| 4 | Ahn | Jae Young | ETRI | Same | N/A | N/A | www.etri.re.kr |
| 5 | Alamouti | Siavash M. | Intel Inc. | Same | N/A | N/A | www.intel.com |
| 6 | Ali | Murtaza | Texas Instruments, Inc. | Same | Not Applicable | Not Applicable | www.ti.com |
| 7 | Alphonse | Jean R. | Lucent Technologies | Same | Not Applicable | Not Applicable | www.alcatel-lucent.com |
| 8 | Alsaleh | Haggar | Consultant | Same | Not Applicable | Not Applicable | |
| 9 | Arefi | Reza | Intel Corporation | same | same | same | www.intel.com |
| 10 | Bajaj | Rashmi | France Telecom R&D | same | Orange Ftgroup | OrangeFTGroup | www.francetelecom.com/en |
| 11 | Barriac | Gwen | Qualcomm, Incorporated | Same | Not Applicable | Not Applicable | www.qualcomm. com |
| 12 | Bavafa | Moussa | Broadcom Corporation | Same | Not Applicable | Not Applicable | www.broadcom.com |
| 13 | Bernstein | Jeff | Telecommunications Management Group, Inc. | QUALCOMM, Incorporated | Not Applicable | Not Applicable | www.tmgtelecom.com |
| 14 | Bravin | Nancy | Self | Qualcomm | Not Applicable | Qualcomm | www.qualcomm. com |
| 15 | Bussey | Chris J. | Bussey Consulting Services, Inc. | Qualcomm | Chris J Bussey | Not Applicable | www.qualcomm. com |
| 16 | Cai | Sean | ZTE USA Inc. | Same | ZTE Corp | Not Applicable | www.zteusa.com |
| 17 | Canchi | Radhakrishna | Kyocera Telecommunications Research Corporation. | Same | Kyocera Corporation. | Kyocera Corporation | www.ktrc-na.com |
| 18 | Carlo | Jim | J.Carlo Consulting LLC | Huawei Technology | Not Applicable | Not Applicable | www.huawei.com |
| 19 | Carneiro | Edson | EPEC Solutions Inc. | Qualcomm Brazil | Not Applicable | Qualcomm | www.epecsolutions.com |
| 20 | Carson | Peter | Qualcomm, Inc. | Same | Not Applicable | Not Applicable | |
| 21 | Castell | Harold P. | Bussey Consulting Services, Inc. | Qualcomm | Chris J Bussey | Not Applicable | www.qualcomm. com |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 22 | Chae | Suchang | ETRI(Electronics and Telecommunications Research Institute) | Same | Not Applicable | Not Applicable | www.etri.re.kr |
| 23 | Chen | Yao | Beijing Samsung Telecommunication | Same | Samsung Electronics Company | Not Applicable | www.samsung.com |
| 24 | Cho | Juphil | Kunsan National University | Same | Not Applicable | Not Applicable | www.kunsan.ac.kr |
| 25 | Choi | Hyoungjin | TTA | same | Not Applicable | Not Applicable | www.tta.or.kr |
| 26 | Choi | Yang-Seok | Intel Corporation | Same | NA | NA | www.intel.com |
| 27 | Chong | Chia-Chin | DoCoMo USA Labs | Same | NTT DoCoMo | N/A | www.docomolabs-usa.com |
| 28 | Chun | Jin Young | LGE | Same | Not Applicable | Not Applicable | www.lge.com |
| 29 | Chung | Jaeho | KT Corporation | Same | Not Applicable | Not Applicable | www.kt.co.kr |
| 30 | Cleveland | Joseph | Samsung Telecommunications America, LLP | Same | Samsung Electronics Company | Not Applicable | www.samsungtelecom.com |
| 31 | Comstock | David | Huawei Technologies Co,Ltd | Same | Not Applicable | Not Applicable | www.huawei.com |
| 32 | Crozier | Eugene | SR Telecom Inc | Same | Not Applicable | Not Applicable | www.srtelecom.com |
| 33 | Dean | Christopher | Telecommunications Management Group, Inc. (TMG) | Qualcomm, Inc. | Not applicable | Not applicable | www.tmgtelecom.com |
| 34 | Dhaliwal | Upkar | Future Wireless Technologies, L.P. | Same | Not Applicable | Not Applicable | www.futurewirelesstech.com |
| 35 | Dodd | Don | Morningstar Mergers | same | N/a | N/a | Mstarmgt@aol.com |
| 36 | Dorward | Lynne | TMG Inc./LADCOMM Corporation | Qualcomm, Inc. | Not applicable | Not applicable | www.ladcomm.com* |
| 37 | Dunn | Doug | Kyocera Telecommunications Research Corporation | Same | Kyocera Corporation | Kyocera Corporation | www.ktrc-na.com |
| 38 | Eilts | Hank | Texas Instruments, Inc. | Same | Not Applicable | Not Applicable | www.ti.com |
| 39 | Epstein | Mark | Qualcomm | same | NA | NA | www.qualcomm.com |
| 40 | Feder | Peretz | Lucent Technologies | Bell Laboratories | Lucent Technologies | NA | www.lucent.com |
| 41 | Ferguson | Alistair | Selbourne Associates | Same | Not Applicable | Not Applicable | |
| 42 | Fong | Mo Han | Nortel | Same | Not Applicable | Not Applicable | www.nortel.com |
| 43 | Freeland | Graham | Steepest Ascent Ltd | same | Not Applicable | Not Applicable | www.steepestascent.com |
| 44 | Gal | Dan | Lucent Technologies | same | Not Applicable | Not Applicable | www.lucent.com |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 45 | Garcia-Alis | Daniel | Steepest Ascent Ltd | same | Not Applicable | Not Applicable | www.steepestascent.com |
| 46 | Garg | Deepshikha | Kyocera Telecommunications Research Corporation. | Same | Kyocera Corporation. | Kyocera Corporation | www.ktrc-na.com |
| 47 | Gil | Gye-Tae | KT | Same | Not Applicable | Not Applicable | www.kt.co.kr/kthome/eng/index.jsp |
| 48 | **Gillies** | **Donald** | **Qualcomm Incorporated** | **Same** | **Not Applicable** | **Not Applicable** | **www.qualcomm.com** |
| 49 | Gomes | Eladio Rodrigues | EPEC Solutions Inc. | Qualcomm Brazil | | Qualcomm | www.epecsolutions.com |
| 50 | Gore | Dhananjay | Qualcomm, Incorporated | Same | Not Applicable | Not Applicable | www.qualcomm. com |
| 51 | Gorodetsky | Svetlana | Gorodetsky Consulting | **Qualcomm Inc.** | Not applicable | Not applicable | |
| 52 | Gorokhov | Alex | Qualcomm Inc. | Same | Not Applicable | Not Applicable | www.qualcomm.com |
| 53 | **Gowaikar** | **Radhika** | **Qualcomm Inc.** | **Same** | **Not Applicable** | **Not Applicable** | **www.qualcomm.com** |
| 54 | Greenspan | Arnie | AROSCO Inc. | Same | Not Applicable | Not Applicable | |
| 55 | Guo | Qiang | Motorola, Inc. | Same | Not Applicable | Not Applicable | www.motorola.com |
| 56 | Haug | John | Motorola, Inc. | Same | Not Applicable | Not Applicable | www.motorola.com |
| 57 | Hou | Victor | Broadcom Corporation | Same | Not Applicable | Not Applicable | www.broadcom.com |
| 58 | Hu | Rose | Nortel Networks | Same | Not Applicable | Not Applicable | www.nortel.com |
| 59 | Hu | Teck | Siemens Network LLC | Same | Siemens AG | Siemens AG | www.siemens.com |
| 60 | Humbert | John | Sprint Corporation | Same | Not Applicable | Not Applicable | www.sprint.com |
| 61 | Huo | David | Lucent Technologies | Same | Not Applicable | Not Applicable | www.lucent.com |
| 62 | Hur | Yerang | POSDATA Co. Ltd., | Same | Not Applicable | Not Applicable | www.posdata.co.kr |
| 63 | Ibbetson | Luke | Vodafone Group Services Limited | same | not applicable | Not Applicable | www.vodaphone.com |
| 64 | Iimuro | Kazuyoshi | Kyocera corporation | Same | Not Applicable | Not Applicable | www.kyocera.co.jp |
| 65 | Ikeda | Yutaka | Sharp Corp | same | not applicable | not applicable | www.sharp-world.com |
| 66 | Ishida | Kazuhito | Qualcomm Inc. | same | Not applicable | Not Applicable | www.qualcomm.com |
| 67 | Jeong | Byung Jang | ETRI | Same | Not Applicable | Not Applicable | www.etri.re.kr |
| 68 | Jette | Al | Motorola, Inc. | Same | Not Applicable | Not Applicable | www.motorola.com |
| 69 | Ji | Baowei | Samsung Telecommunications America, LLP | Same | Samsung Electronics Company | Not Applicable | www.samsungtelecom.com/ |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 70 | Ji | Tingfang | Qualcomm, Incorporated | Same | Not Applicable | Not Applicable | www.qualcomm. com |
| 71 | Jones | Dennis | Taliesen North Consulting | Same | Not Applicable | Not Applicable | |
| 72 | Joo | Panyuh | Samsung Electronics | Same | Samsung Electronics | Not Applicable | www.samsung.com |
| 73 | Kadous | Tamer | Qualcomm, Incorporated | Same | Not Applicable | Not Applicable | www.qualcomm. Com |
| 74 | Kalhan | Amit | Kyocera Telecommunications Research Corporation | Same | Kyocera Corporation | Kyocera Corporation | www.ktrc-na.com |
| 75 | Kanai | Takeo | Symbies, Inc. | Softbank BB Corp. | N/A | N/A | www.symbies.com/ |
| 76 | Kang | Hyunjeong | Samsung Electronics Company | Same | Samsung Electronics Company | Not Applicable | www.samsung.com |
| 77 | Katayama | Masahide | Kyocera Corp | same | not appliciable | Not Applicable | www.kyocera.co.jp |
| 78 | Kawabata | Hiro | Qualcomm | Same | not Applicable | Not Applicable | www.qualcomm.com |
| 79 | Khademi | Majid | Khademi Consulting | Khademi Consulting | Not Applicable | Not Applicable | |
| 80 | Khandekar | Aamod | Qualcomm, Incorporated | Same | Not Applicable | Not Applicable | www.qualcomm. com |
| 81 | Khatibi | Farrokh | Qualcomm, Incorporated | Same | Not Applicable | Not Applicable | www.qualcomm.com |
| 82 | Kiernan | Brian | Interdigital Communications Corp | same | not applicable | Not Applicable | www.interdigital.com |
| 83 | Kim | Hyeon Soo | Samsung Electronics Company | Same | Samsung Electronics Company | Not Applicable | www.samsung.com |
| 84 | Kim | Jae-Ho | ETRI | Same | Not Applicable | Not Applicable | www.etri.re.kr |
| 85 | Kim | Peter | TTA | same | Not Applicable | Not Applicable | www.tta.or.kr |
| 86 | Kim | Taeyoung | Samsung Electronics Company | Same | Samsung Electronics Company | Not Applicable | www.samsung.com |
| 87 | Kim | Yong Ho | LGE | Same | Not Applicable | Not Applicable | www.lge.com |
| 88 | Kim | Young Ho | Samsung Electronics Company | Same | Samsung Electronics Company | Not Applicable | www.samsung.com |
| 89 | Kim | Young Kyun | Samsung Electronics Company | Same | Samsung Electronics Company | Not Applicable | www.samsung.com |
| 90 | Kim | Youngsoo | Samsung Electronics Company | Same | Samsung Electronics Company | Not Applicable | www.samsung.com |
| 91 | Kimura | Shigeru | Kyocera Corp. | Same | Not Applicable | Not Applicable | www.kyocera.co.jp |
| 92 | Kitahara | Minako | Kyocera Corp. | Same | Not Applicable | Not Applicable | www.kyocera.co.jp |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 93 | Kitamura | Takuya | Fujitsu Limited | Same | Not Applicable | Not Applicable | www.fujitsu.com |
| 94 | Klerer | Mark | QUALCOMM Flarion Technologies | Same | QUALCOMM, Incoroporated | Not Applicable | www.qualcomm.com/qft/ |
| 95 | Knisely | Douglas | Airvana, Inc. | Same | Not Applicable | Not Applicable | www.airvana.com |
| 96 | Kolze | Tom | Broadcom | same | Not applicable | Not applicable | www.broadcom.com |
| 97 | Koo | Changhoi | Samsung Telecommunications America, LLP | Samsung Electronics | Same | Same | www.samsungtelecom.com |
| 98 | Koplyay | Ferenc | Freescale Semiconductor | Same | N/A | N/A | www.freescale.com |
| 99 | Kujawski | Fred | AirCell Inc. | Same | Not Applicable | Not Applicable | www.aircell.com |
| 100 | Kwon | Dong-Seung | ETRI | same | Not applicable | Not applicable | www.etri.re.kr |
| 101 | Kwon | Young-Hyoun | LGE | Same | Not Applicable | Not Applicable | www.lge.com |
| 102 | Lalaguna | Pablo | MedStar Systems, LLC | Qualcomm | | Qualcomm | www.medstarsystems.com |
| 103 | Lawrence | Lisa | CTCI | Qualcomm | Same | Same | www.ctci.ca |
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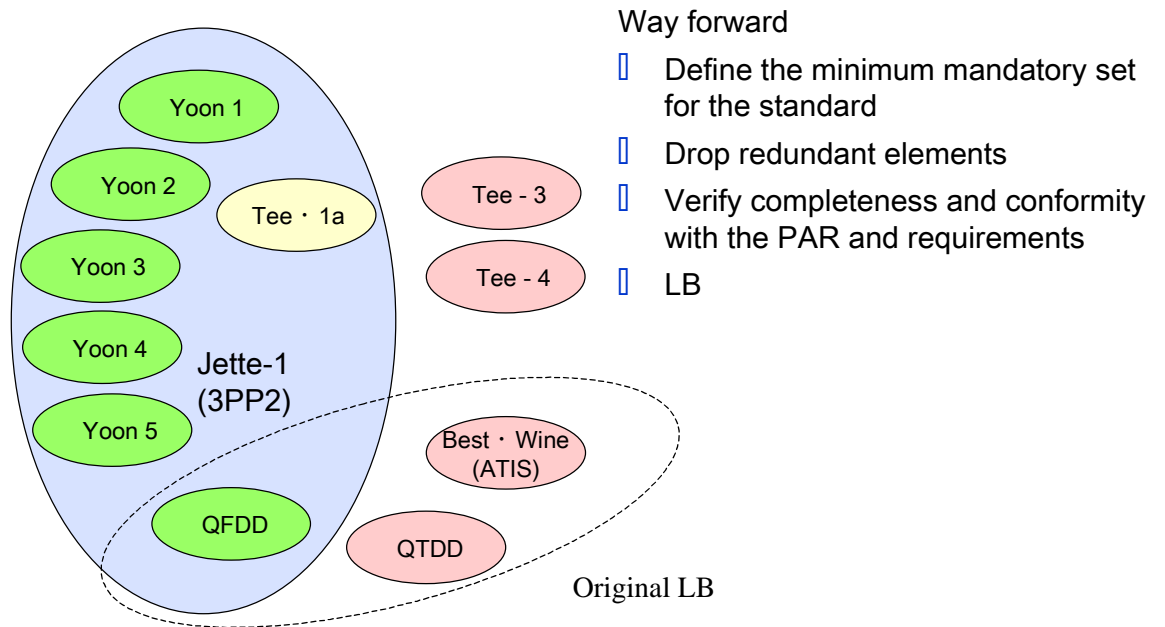| | | | | | | | |
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Most recent updates highlighted in yellow

# Appendix 3

# Discussion diagram by Riku Pirhonen



Way forward

Define the minimum mandatory set for the standard

Drop redundant elements

Verify completeness and conformity with the PAR and requirements

LB

**Appendix 4**

**Chair's slides from Thursday, March 15**

# Progressing the Draft

- The WG will use "practice ballots" to make progress on the new draft
  - Other groups have used this process to advance a draft that is not quite ready for WG ballot
- A "practice ballot" is a 30-day ballot where voting, comment submission and comment resolution are performed exactly as if it were a WG Ballot

# Progressing the Draft

- A "practice ballot" is not a WG Ballot
    - a passing ballot does not trigger WG ballot
    - the WG must vote to start a WG Ballot
    - there are no recirculation ballots, the entire draft is available for comment in subsequent practice ballots
    - all comments must have proposed resolutions that would satisfy the commenter
    - unresolved negatives and the CR responses are placed into a database that is circulated with the subsequent draft

# Process

- At this meeting the WG will hold a vote to:
  - authorize the editor to create D0.1
  - the chair to conduct a practice ballot on D0.1
  - authorize the WG to resolve comments at the May Interim Session and **to progress the draft**
    - this allows another ballot to occur prior to the July Plenary
- Practice ballots continue until the WG believes the draft is of sufficient quality to start a WG ballot
  - goal is to ensure good progress and quality because of the integration of new content to the current draft

# Best Case Schedule

- March 2007 WG Votes to:
  - Authorize the Editor to create D0.1 based on current draft and motions to accept new content
  - Authorize the Chair to conduct Practice Ballot 0.1
  - Authorize the WG to progress the draft at the May Session
- May 2007
  - Comment Resolution on D0.1
  - Authorize the Editor to create D0.2 based on the current draft and the resolved comments
  - Authorize the Chair to conduct Practice Ballot 0.2
- July 2007
  - Comment Resolution on D0.2
  - Decision point: Is the draft ready for WG Letter Ballot?
    - No: continue with Practice Ballot D0.3
    - Yes: create D1.0 based on D0.2 and resolved comments