

Project	<b>IEEE 802.20 Working Group on Mobile Broadband Wireless Access</b> < <a href="http://grouper.ieee.org/groups/802/20/">http://grouper.ieee.org/groups/802/20/</a> >
Title	<b>Draft Meeting Minutes, 802.20 Interim Meeting - Session #22, London, England, UK, Jan 15-19, 2007</b>
Date Submitted	<b>2007-02-09</b>
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Re:	<b>802.20 Session#22</b>
Abstract	Draft of the Minutes of the Session #22
Purpose	Minutes of the Session.
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## Draft - Meeting Minutes of the 802.20 Session #22

Jan 15–19, 2007

London, England UK

Yvette Ho Sang, as Acting Recording Secretary

The 22<sup>nd</sup> session of 802.20 was held at the Jan 2007 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.  
See the Appendix A-2 for the affiliation statements submitted.**

### Minutes of 802.20 Monday Jan 15, 2007

#### **Meeting started at 10:30 AM.**

A Call for Patents was conducted by Chair Arnie Greenspan with presentation of the patent slides found at <http://standards.ieee.org/board/pat/index.html>.

Roll call attendance was conducted. The result showed no quorum since 57 of 149 members were in attendance.

The Chair presented his opening remarks (see 802.20-07/01).

The draft of the amended Dallas minutes was approved by members in the room (no dissent from approval).

The Chair gave an update on the IEEE P802.20 PAR status. The PAR has been conditionally approved for 2 years.

A call for Vice Chair and Recording Secretary was conducted by Chair Greenspan. It was noted that the Interim Recording Secretary would no longer be able to assist the working group, so a replacement is urgently needed for the March Plenary.

A status on the IEEE P802.16m PAR was given by Chair Greenspan. All suggestions and recommendations by the IEEE 802.20 WG were included in the IEEE P802.16m PAR.

Chair Greenspan gave a status of appeals. He noted that the Upton appeal of the Appeal panel decision on the appeal decisions of the IEEE 802.20 Working Group Chair originally heard March 8, 2006 was adjudicated and denied by the IEEE-SASB. All other pending appeals will be heard by appeal panels of the IEEE-SA BoG.

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**Discussion of Project Development Plan and Call for Proposal**

The Chair noted that the accelerated schedule was ambitious, but that it was a target. He noted that the Call for Proposal could result in additional proposals or partial proposals that may impact the schedule. The dates would be adjusted if necessary.

Sassan Ahmadi questioned whether a WG ballot was required to approve the Project Development Plan. The plan indicates intermediate steps to get to sponsor ballot. He noted that the plan assumes that the current draft is the baseline document, which may not be correct.

The Chair noted that the current draft will be updated to include any full or partial proposals. All steps on the schedule will be taken, even if the dates are incorrect on the current version of the plan. There will be no shortcuts—a WG ballot will be taken and the approved draft will go to Sponsor ballot. The plan provides a basis to work against.

Chair Greenspan explained that it is important to see how any additional work will align with the current draft. He will continue as if appeals were denied. The Chair would like to provide the opportunity for those who have requested changes to indicate the changes to the draft in working group meetings in the evenings.

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**Straw Poll Question 1:** Move to adopt the revised Project Development Plan.

Moved: Jerry Upton  
Seconded: Ayman Naguib

Results: 48 Yes, 8 No, 1 Abstain

Time: 11:45 AM  
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The Chair noted that he expects productive interchange within the working group. The intent is to work together to develop a standard. The Chair retains the right to decide if the option to move to entity or remove voting rights is required to ensure that the working group moves forward.

**Session break from 11:55 AM to 1: 10 PM.**

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**Session resumed at 1:15 PM.**

## Proposal Presentation

A proposal presentation was made by Al Jette, Hao Bi, and John Haug (see C802.20-07/01).

The following were questions by working group members:

(slide 4) Explain FL slot structure

Response: Worst case scenario shown

(slide 32) CAZAC/GCL what other properties were considered

Response: **PAPR** properties; settled on GCL sequence

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(slide 35) How does duty cycle affect the efficiency?

Response: Slots are grouped rather than alternating them **to reduce the overall guard time**

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(slide 6) Elaborate on how forward link message would be sent

(slide 35) **Your TDD proposal allows for flexible uplink and downlink deployment allocations.**

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Response: **Operators may have different traffic needs; it is best to fix the uplink and downlink allocation for the entire system to manage interference.**

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(slide 36) Slide not clear

Response: Will be more clearly developed in full proposal; slide is to give a rough idea of the concept

**Deleted:** Deployment in your system; operators may have different traffic needs; best to pick one and stay with it; if flexible, entire system has to change

(slide 20) Second bullet: Elaborate on what is meant by TDM mode; multiple streams to single user

Response: **TDM mode means TDM on a particular sub-channel, i.e., transmissions to different users on a sub-channel are time division multiplexed.**

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(slide 26) Multiplex for long and short frames; do you have the same frequency? How multiplex?

Response: More in full proposal

(slide 27) Showing long information

(general slide 4) 3 slots per frame; 1.667 ms

(slide 12) How deal with dedicated pilots (frequency select/distributed resource); how does numerology work with slot structure?

Response: Slide 16 says that there will be dedicated pilots

What is structure of control channels?

Response: Will provide details in full proposal

**Session break from 2:40 PM to 3:00 PM**

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**Session resumed at 3:00 PM.**

Chair Greenspan noted that the WG would review comments on the draft and that LB1 responses may still be changed during the discussion.

Mark Klerer noted that the LB2 comments are unedited.

A discussion of the comments and responses to rejected LB1 and all LB2 comments ensued.

**Comment Resolution**

**See the IEEE 802.20 Working Group member site for versions of the comment resolution spreadsheet. Final dispositions are shown in M802.20-07/01.**

**LB1, 8, 9, 12:** Pending resolution— Open; subgroup to create text that clarifies two existing modes

**LB1, 13:** Pending resolution— Open; comment is too general; commenter needs to provide specific changes that would resolve concerns

**LB1, 14:** Pending resolution— Open; comment is too general; commenter needs to provide specific changes that would resolve concerns

**LB1, 20:** Pending resolution— Open; commenter needs to provide additional information, e.g., simulations, so that the working group can determine the required changes to the draft

**LB1, 23-25:** Resolution—Closed; accepted by commenter

**LB1, 30 (see LB2, 26):** Resolution—Closed; accepted by commenter

**LB1, 35:** Pending resolution— Open; subgroup to review and create text where appropriate

**LB1, 36:** Resolution—Closed; accepted by commenter

**LB1, 37:** Pending resolution— Open; simulation data requested

**LB1, 39:** Pending resolution— Open; simulation data requested

**LB1, 41:** Pending resolution— Open; subgroup to conduct technical discussion

**LB1, 45:** Pending resolution— Open; subgroup to conduct technical discussion

**LB1, 68:** Pending resolution— Open; Secretary to confirm requirement to have PAR and draft scope and purpose match

**LB1, 70:** Resolution— Open; subgroup to provide text (see LB1, 8, 9, 12)

**LB1, 71:** Pending resolution— Open; Secretary to confirm requirement to have PAR and draft scope and purpose match

**LB1, 73:** Pending resolution— Open; subgroup to provide text

**LB1, 90:** Resolution—Closed; accepted by commenter

**LB1, 118 (119, 145, 152, 182, 189, 194):** Resolution—Closed; no objection to enriched MAC

**LB1, 174:** Pending resolution— Open; accept but request clarifying diagram

**LB1, 227:** Resolution—Closed; no further comments

**LB1, 238:** Pending resolution— Open; subgroup to provide text

**LB1, 311:** Resolution—Closed; no further comments

**LB1, 343:** Resolution—Closed; accepted

**LB1, 369:** Resolution—Closed; no further comments

**LB1, 378:** Pending resolution— Open; commenter to respond

**LB1, 383 (same as 343):** Resolution—Closed

**LB1, 399:** Pending resolution— Open; subgroup to provide text

**LB1, 402:** Pending resolution— Open; comment is too general; commenter needs to provide specific changes that would resolve concerns

**LB1, 403:** Resolution—Closed; accepted by commenter

**LB1, 405:** Resolution—Closed; accepted by commenter

**LB1, 414:** Resolution—Closed; accepted by commenter

**LB1, 425:** Resolution—Closed; accepted by commenter

**LB1, 452:** Pending resolution— Open; subgroup to provide text

**LB1, 479:** Resolution—Closed; accepted by commenter

**LB1, 488:** Pending resolution— Open; commenter to respond

**LB1, 492:** Resolution—Closed; accepted by commenter

**LB1, 530:** Resolution—Closed; accepted by commenter

**LB1, 545:** Pending resolution— Open; subgroup to provide text

**LB1, 603:** Pending resolution— Open; subgroup to provide text

**Session recessed at 5:45 PM.**

## **Minutes of 802.20 Tuesday Jan 16, 2007**

**Meeting started at 8:35 AM.**

The Chair gave an update on the work from the previous evening

- No comments on Requirements document
- Traffic Modeling document will have change proposals
- Will work on other documents with specific proposed changes

### **LB2 Process Comments**

**LB2/1:** Resolution—Closed; no objections

**LB2/2:** Resolution—Closed; no objections

**LB2/3:** Resolution—Closed; no objections

**LB2/4:** Resolution—Closed; no objections

**LB2/5:** Resolution—Closed; no objections

**LB2/6:** Resolution—Closed; no objections

**LB2/7:** Resolution—Closed; no objections

**LB2/8:** Resolution—Closed; no objections

**LB2/9, 10, 11, 12:** Resolution—Closed; no objections

**LB2/13:** Resolution—Closed; copyright information to be reviewed by Chair and IEEE-SA editor

**LB2/35:** Resolution—Closed; copyright information to be reviewed by Chair and IEEE-SA editor

**LB2/37:** Resolution—Closed; no objections

**LB2/41:** Resolution—Closed

**LB2/52:** Resolution—Closed; copyright information to be reviewed by Chair and IEEE-SA editor

**LB2/53:** Resolution—Closed; copyright information to be reviewed by Chair and IEEE-SA editor



**LB2/55:** Resolution—Closed; copyright information to be reviewed by Chair and IEEE-SA editor

**LB2/56:** Resolution—Closed; copyright information to be reviewed by Chair and IEEE-SA editor

**LB2/58:** Resolution—Closed; copyright information to be reviewed by Chair and IEEE-SA editor

**LB2/60:** Resolution—Closed; copyright information to be reviewed by Chair and IEEE-SA editor

**LB2/70:** Resolution—Closed; copyright information to be reviewed by Chair and IEEE-SA editor

**LB2/71:** Resolution—Closed; copyright information to be reviewed by Chair and IEEE-SA editor

**LB2/73:** Resolution—Closed; copyright information to be reviewed by Chair and IEEE-SA editor

### **LB2 Technical and Editorial Comments**

**LB2/9:** Resolution—Closed; no objections

**LB2/10:** Resolution—Closed; addressed by IEEE editors during publication process

**LB2/11:** Resolution—Closed; copyright information to be reviewed by Chair and IEEE-SA editor

**LB2/12:** Resolution—Closed; comment is too general; commenter needs to provide specific changes that would resolve concerns

**LB2/14:** Resolution—Closed; no objection to fully functional MAC

**LB2/15:** Pending resolution— Open; subgroup to provide text

**LB2/16:** Pending resolution— Open; subgroup to provide text

**LB2/17 and 18:** Pending resolution— Open; subgroup to provide text

**LB2/19 and 20:** Resolution—Closed; poll of WG offered no support for adding 1.25 MHz

**LB2/21:** Resolution—Closed; accepted by commenter

**LB2/22:** Resolution—Closed; accepted by commenter

**LB2/23:** Resolution—Closed; copyright information to be reviewed by Chair and IEEE-SA editor

**LB2/24:** Resolution—Closed; comment is too general; commenter needs to provide specific changes that would resolve concerns

**LB2/25:** Resolution—Closed; no objections

**LB2/26:** Resolution—Closed; editorial changes

**LB2/27:** Resolution—Closed; no objections

**LB2/28:** Resolution—Closed; copyright information to be reviewed by Chair and IEEE-SA editor; permission responses to be made available to the WG.

**LB2/29:** Resolution—Closed; no objections

**LB2/30:** Resolution—Closed; no objections

**LB2/31:** Resolution—Closed; accepted by commenter

**LB2/32:** Pending resolution— Open; subgroup to provide text

**LB2/33:** Resolution—Closed; include in discussion by smaller group to ensure interoperability

**LB2/34 (see LB2/15):** Resolution— Closed

**LB2/36:** Pending resolution— Open; subgroup to provide text

**LB2/38:** Pending resolution— Open; comment is too general; commenter needs to provide specific changes that would resolve concerns

**LB2/39:** Pending resolution— Open; subgroup to provide text

**LB2/40:** Pending resolution— Open; comment is too general; commenter needs to provide specific changes that would resolve concerns

**Session break from 11:40 PM to 11: 50 PM.**

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**Session resumed at 11:55 PM.**

**LB2/48:** Pending resolution— Open; Secretary to confirm requirement to have PAR and draft scope and purpose match

**LB2/42 (see LB1, 45):** Pending resolution— Open; subgroup to provide text

**LB2/43:** Pending resolution— Open; comment is too general; commenter needs to provide specific changes that would resolve concerns

**LB2/44:** Resolution—Closed; accepted by commenter

**LB2/45:** Pending resolution— Open; data check by Alex

**LB2/46:** Resolution—Closed

**Session break from 12:33 PM to 2: 00 PM.**

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**Session resumed at 2:15 PM.**

**LB2/47:** Pending resolution—Open; Anna will provide specific changes to draft

**LB2/48:** Resolution—Closed

**LB2/50:** Pending resolution— Open; subgroup to provide text

**LB2/51:** Pending resolution— Open; subgroup to provide text

**LB2/54:** Resolution—Closed; no objections to resolution (commenter not present)

**LB2/57 (see LB1/140):** Resolution—Closed; no objections to resolution (commenter not present)

**LB2/59:** Resolution—Closed; no objections to resolution (commenter not present)

**LB2/61:** Resolution—Closed; accepted by commenter

**LB2/64 and 65:** Resolution—Closed; accepted by commenter

**LB2/66 (see LB1/369):** Resolution—Closed; accepted by commenter

**LB2/67:** Pending resolution— Open; subgroup to discuss outline and development of second document

**LB2/62:** Pending resolution— Open; subgroup to review input by Anna; Alex to provide simulations

**LB2/63:** Resolution—Closed; accepted by commenter

**LB2/68 (see LB1/402):** Pending resolution— Open; comment is too general; commenter needs to provide specific changes that would resolve concerns

**LB2/69 (see LB2/22):** Resolution—Closed; no objections

**LB2/72:** Resolution—Closed; no objections

**LB2/74:** Pending resolution— Open; subgroup to provide text

**LB2/75:** Resolution—Closed; accepted by commenter

**LB2/76:** Resolution—Closed; accepted by commenter

**Session break from 3:15 PM to 3: 35 PM**

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**Session resumed at 3:35 PM.**

**LB2/77 (see LB2/20):** Resolution—Closed; no objections

**LB2/78:** Pending resolution— Open; subgroup to provide text

**LB2/79:** Pending resolution— Open; verification of refs by commenter

**LB2/80:** Pending resolution— Open; subgroup to provide text

**LB2/81:** Pending resolution— Open; subgroup to provide text

**LB2/82:** Pending resolution— Open; subgroup to provide text

**LB2/83:** Resolution—Closed; accepted by commenter

**LB2/84:** Resolution—Closed; accepted by commenter

**LB2/87:** Pending resolution— Open; review by commenter

**LB2/85:** Pending resolution— Open; subgroup to provide text

**LB2/86:** Pending resolution— Open; verification of references

**LB2/88:** Resolution—Closed; accepted by commenter

**LB2/89:** Pending resolution—Open; subgroup to provide text

**LB2/90:** Resolution—Closed; accepted by commenter

**LB2/91:** Pending resolution—Open; editor to review footnote to include suggested wording where appropriate

**LB2/92 and 93:** Pending resolution—Open; additional review by commenter

**LB2/94 (see LB2/90):** Resolution—Closed; accepted by commenter

**LB2/95 (see LB1/488):** Pending resolution—Open; subgroup to provide text

**LB2/96 (see LB1/496):** Resolution—Closed

**LB2/97 (see LB1/500):** Resolution—Closed; accepted by commenter

**LB2/98:** Pending resolution—Open; review of simulation data

**LB2/99:** Pending resolution—Open; additional review by commenter

**LB2/100:** Resolution—Closed; no objections

**LB2/101:** Resolution—Closed; accepted by commenter

**Session recessed at 6:00 PM.**

**Minutes of 802.20 Wednesday Jan 17, 2007**

**Meeting started at 8:00 AM.**

**Technical discussions to resolve outstanding ballot comments**

**LB1/403 and 452:** Resolution—Closed; new text for footnote submitted by subgroup

**LB1/41 and LB2/47:** Resolution—Closed; no objections

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A presentation on the Simulation Data for Letter Ballot Comments on Quasi-guard Subcarriers and Reverse Link Waveform was given by Anna Tee (see C802.20-07/03).  
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**LB2/89:** Pending resolution—Open; pending review of C802.20-07/03

**LB1/22, LB2/17, LB2/18:** Pending resolution—Open pending presentation by subgroup

**LB2/39:** Pending resolution—Open; pending response from commenter

**LB1/488:** Pending resolution—Open; pending response from commenter

**LB1/238, 378:** Pending resolution—Open; awaiting response from commenter

**LB1/45 and LB2/42:** Pending resolution—Open; pending response from commenter

**LB2/78:** Pending resolution—Open; pending response from commenter

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\* **LB2/62:** Resolution—Closed; no objections

**LB2/91:** Resolution—Closed; no objections

**LB2/92:** Pending resolution— Open; pending response from commenter

**LB2/99:** Pending resolution— Open; pending response from commenter

**Deleted:** A presentation was given by  
Alexei Gorokhov (see C802.20-07/07).¶  
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### **Discussion on open items**

The following are comments made by working group members:

- Suggest opening a PAR to address performance requirements
- Need transmitter fidelity requirements (fundamental lack in draft)
- Performance requirement usually developed by other constituents under separate process
- Can begin to develop system, and can help with determination of receiver and transmitter technology
- Better off to stabilize air interface then structure minimal requirements for equipment vendors

Resolution—Open; request volunteers to develop PAR and Five Criteria (Jim Tomcik, Joanne Wilson, Jerry Upton)

The Chair noted that the agenda for the evening session would be

- Channel Model discussion
- Progress through comments
  - PAPR related issues
  - LB2/78
  - LLC-PDUs
  - Further open comments

### **Session break from 12:30 PM to 2: 00 PM.**

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### **Session resumed at 2:00 PM.**

Channel Model changes agreed on by subgroup were presented by Ayman Naguib (see 802.20-07/05).

The Chair confirmed that there were no objections to including the changes as nonsubstantial.

Proposed changes to the Channel Model document were presented by Anna Tee (see C802.20-07/02)

The following comments were made by working group members (see also C802.20-07/04):

Page 5: Item E, 1<sup>st</sup> para

- This document was developed before the draft, and assumption was that proposal would come from various companies, so had to allow either MIMO or SISO or other possibilities
- Proposal that was submitted had both MIMO and SISO
- It is not correct that the SCM description is included in the document and not as the model for simulation; during discussion in the working group (March, May, Sep 2005) it was debated while the working group was determining how to come up with the correlation matrix
- Issue was debated several times
- Section 3.6 discusses MIMO and reads, “Non-SISO systems...Section 7.”

Page 6: Item F

The Chair requested that those who had an interest in SCM indicate their interest. There was no interest indicated by the working group members.

Page 6: item G

- The information can be obtained from link curves
- This is an issue that needs a solution to meet the PAR and ensure that system does not fall apart; we do not expect a user who is moving to have high performance, but we need to ensure that connectivity is maintained. Need reasonable evaluation scenario for this.

**Session break from 3:15 PM to 3: 30 PM**

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**Session resumed at 3:30 PM.**

Alex Gorokhov presented on Dynamic PA Backoff Techniques and SC-FDMA (see C802.20-07/05).

The following comments were made by working group members:

Slide 3

- Could in-band distortion be the same as out-of-band distortion?  
Response: If in spectral mask, then fine

**LB2/17 and LB2/18:** Pending resolution—Open; pending review by commenter

**LB2/78:** Pending resolution—Open; pending review by commenter

**LB1/378:** Resolution—Closed; accepted by commenter

**LB1/238:** Pending resolution—Open; pending review by commenter

**LB2/99:** Resolution—Open; pending review by commenter

The Chair noted that the Draft PAR and remaining comments will be discussed tomorrow. His intention is to get comment resolution completed at this session.

**Session recessed at 6:00 PM.**



## **Minutes of 802.20 Thursday Jan 18, 2007**

### **Meeting started at 9:00 AM.**

Chair Greenspan presented the agenda for the day

- Review of Draft PAR
- Completion of comments
- Proposed changes to Evaluation Criteria document

The Chair then made an urgent call for Vice Chair and Secretary.

### **Review of Draft PAR**

The following comments were made by working group members:

#### **5.2 Scope**

- Wouldn't this project be more appropriate as a recommended practice rather than a standard?
- The project needs to be a standard to ensure that technology works correctly.
- The project needs to go beyond the current scope; need completion of definition of transmit waveform (transfer fidelity specifications).
- When system is implemented, you will have performance characteristics of transmitter and receiver.
- For the air interface document, if you put in air interface requirement, it would be a fixed number; will have tolerance and measurement margins; fidelity requirements are better in a minimum requirements document.

#### **5.3 Dependency**

- Document can be completed from 2 weeks to 6 months after air interface finalized.

#### **5.4 Purpose**

No changes.

#### **5.5 Need**

No changes.

The Chair noted that the working group reviewed the PAR, made changes, and will review the revised PAR again in March. The working group will need to develop the Five Criteria.

## Comment Resolution

LB2/18: Resolution—Closed; not accepted by commenter

LB1/45, LB2/42, and LB2/89: Resolution—Closed; not accepted by commenter

LB2/45: Resolution—Closed; not accepted by commenter

LB2/12: Resolution—Closed; not accepted by commenter

LB2/38: Resolution—Closed; not accepted by commenter

LB2/40: Resolution—Closed; accepted by commenter

LB2/43: Resolution—Closed; accepted by commenter

LB2/78: Resolution—Closed; not accepted by commenter

LB2/80: Resolution—Closed; accepted by commenter

LB2/81: Resolution—Closed; not accepted by commenter

LB2/82: Resolution—Closed; accepted by commenter

LB2/85: Resolution—Closed; accepted by commenter

LB2/86: Resolution—Closed; accepted by commenter

LB2/87: Resolution—Closed; not accepted by commenter

LB2/92: Resolution—Closed; accepted by commenter

LB2/93: Resolution—Closed; accepted by commenter

LB2/95: Resolution—Closed; not accepted by commenter

LB2/98: Resolution—Closed; not accepted by commenter

LB2/99: Resolution—Closed; accepted by commenter

LB1/20: Resolution—Closed; not accepted by commenter

LB2/39: Resolution—Closed; not accepted by commenter

**Session break from 10:15 AM to 10: 45 AM.**

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**Session resumed at 10:45 AM.**

LB1/37: Resolution—Closed; accepted by commenter

LB1/238: Resolution—Closed; accepted by commenter

LB2/32: Resolution—Closed; not accepted by commenter

Mark Klerer noted that the comment sheets would be updated and posted (see M802.20-07/01 in the membership area of the IEEE 802.20 Web site).

The Chair noted that the intent is to allow open discussion and an effort to resolve all issues with regard to the letter ballots and WG documents during this meeting. Going forward, we will not focus on the past issues.

Mark Klerer presented proposed changes to Section 1.2 that was intended to address the 625 MHz issue.

Victor Hou noted that the text currently has entirely separate modes (wideband and 625k-MC), **which is an issue of concern. There are a few ways to handle this, but the majority has chosen to maintain the two separate modes.**

Proposed Changes to Evaluation Criteria document

Anna Tee presented proposed changes to the Evaluation Criteria document (see C802.20-07/06).

The Chair noted that making these changes in the Evaluation Criteria will require simulations and cause all submittals for the future to not meet the evaluation criteria, which would nullify a lot of the work already done by the WG.

The following comments were made by working group members:

- This is just an appropriate requirement for comparing technologies; vendors will decide how to market the product depending on their decision on the traffic mix
- Reverse link evaluation was not noted sufficiently in early ballots; the intent was not to affect the call for proposals; the information was brought forward because of technical concern with inadequacy
- Traffic model was done to facilitate comparison between various types of technology; it was not meant to test traffic deployment

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- Purpose of evaluation is to determine how to manage resources and optimize mix; power could be higher and cause interference; in this example, need to address power control in draft; might not be able to see issues without requiring the simulations

- This was discussed at the Dallas meeting

The Chair noted that the group will go through the presentation then find out from the group if there are any important points that need to be addressed.

#### Section 4.3.4 FTP and Evaluation of system performance at high mobility

- Why was the current Evaluation Criteria document considered sufficient?

- One buffer and mix was considered sufficient; the information in the document is sufficient to compare technologies; we won't be able to do all the scenarios to satisfy real world needs

- The current proposal was the only one supplied; with one there is no need for further simulation; with new proposals, not having this information could result in a breaking point between the proposals

The Chair noted that the document is the minimal set of proposal. If new proposals exceed the current base, then that might be better for the new proposals.

#### **Session break from 12:25 AM to 2: 00 PM.**

#### **----- Session resumed at 2:07 PM.**

LB1/8, 9, 12, and 70: Resolution—Closed; not accepted by commenter

LB1/13: Resolution—Closed; not accepted by commenter

LB1/32: Resolution—Closed; accepted by commenter

LB1/35: Resolution—Closed; not accepted by commenter

LB1/39: Resolution—Closed; accepted by commenter

LB1/399: Resolution—Closed; not accepted by commenter

LB1/488: Resolution—Closed; not accepted by commenter

LB1/545: Resolution—Closed; new text provided

LB1/603: Resolution—Closed; new text provided

LB2/16: Resolution—Closed; not accepted by commenter

LB2/17: Resolution—Closed; not accepted by commenter

LB2/36: Resolution—Closed; not accepted by commenter

LB2/50 and LB2/51: Resolution—Closed; new text provided

LB2/67: Resolution—Closed; not accepted by commenter

The estimate is that there will be 17 comments unresolved when completed.

Discussion of Five Criteria to accompany PAR

- Request to include transmit fidelity requirements.

A straw poll was taken to approve the PAR and Five Criteria.

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**Straw Poll Question 2:** Move to approve PAR, including the Five Criteria for confirmation at the March 2007 802 Plenary, for ultimate submission to the 802 EC for approval by the IEEE-SASB

Moved: Nancy Bravin  
Seconded: Jim Tomcik

Results: 34 Yes, 0 No, 8 Abstain

Time: 2:35 PM

\*\*\*\*\*

Anna Tee noted that the changes to the Channel Models document should be considered by the WG.

The Chair noted that the Channel Models document changes are clarifications and will not need additional actions. The working group was asked whether changes were substantial and the members agreed that the changes were not. The Chair then determined that the changes were editorial.

Chair Greenspan then made a call for Vice-Chair and Secretary.

Meetings for Friday, 19 January 2007 were cancelled.

Move to adjourn: Nancy Bravin  
Seconded: Alex Gorokhov  
Adjourn 2:55 PM

**Appendix A-1**

**Overall Session Attendance and Participation Credit**

	A	B	J	K	P	Q	R	S	T	U	W	X	Y
1	Last Name	First Name	Jan07 Voters	Mar07 Voters*	July05	Sept05	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		1
5	Ahn	Jae Young	M	M			1	1	1	1			
6	Alamouti	Siavash	M	M			1	1	1	1			
7	Alder	Larry	M	No									
8	Ali	Murtaza	M	M			1	1	1				
9	Alphonse	Jean	M	M			1	1	1				
10	Arefi	Reza	M	M			1	1	1	1			
11	Austin	Mark	No	No		1							
12	Bajaj	Rashmi	M New	M New					1		1		
13	Barriac	Gwen	M	M	1	1	1	1	1				1
14	Basu	Saswata	M New	No				1	1				
15	Batin	Colin	No	No									
16	Baum	Kevin	M New	No			1			1			
17	Bavafa	Moussa	M	M					1	1	1		
18	Bentov	Izhar	No	No			1						
19	Bernstein	Jeffrey	M	M	1	1	1	1	1		1		1
20	Bi	Hao	No	No									
21	Bogenfeld	Eckard	No	No					1				
22	Bravin	Nancy	M	M	1	1	1	1	1		1		1
23	Burbank	Jack	No	No				1					
24	Bussey	Chris	M	M	1	1	1	1	1		1		1
25	Cai	Sean	M	No			1	1	1				
26	Canchi	Radhakrishna	M	M	1	1	1	1	1	1	1		1
27	Carlo	Jim	M	M			1	1	1				
28	Carneiro	Edson	M	No	1	1		1	1				
29	Carson	Peter	M	M		1	1	1	1				1
30	Castell	Harold P.	M	M	1	1	1	1	1		1		
31	Chae	Suchang	M New	M New					1	1			
32	Chang	Young Bin	M New	No					1	1			
33	Chen	Michael	No	No			1						
34	Chen	Yao	No	No						1			
35	Chickneas	Jim	M	No	1	1	1	1	1				
36	Chion	Hua Mary	M	No			1	1	1				
37	Cho	Juphil	M	M				1	1		1		
38	Cho	Jaeweon	No	No				1					
39	Cho	Soonmi	M New	No					1	1			
40	Choi	Hyoungjin	M New	M New				1	1				
41	Choi	JoonYoung	No	No				1					
42	Choi	Yang-Seok	M	M			1	1	1	1			
43	Choi	Yun	No	No					1				
44	Chong	Chia-Chin	M New	M New			1	1		1			1
45	Choo Eng	Yap	No	No									
46	Chun	Jin Young	M	M		1	1	1	1				
47	Chung	Jaeho	M	M				1	1		1		
48	Cleveland	Joseph	M	M			1	1			1		

	A	B	J	K	P	Q	R	S	T	U	W	X	Y
49	Comstock	David	M New	M New				1	1	1			
50	Dalal	Neerav	No	No			1						
51	Dean	Chris	M	M	1	1	1	1	1		1		1
52	Dhaliwal	Upkar	No	M New							1		1
53	Dodd	Donald	M	M	1	1	1		1				
54	Dorward	Lynne	M	M	1	1	1	1	1				
55	Dunn	Doug	M	M			1	1	1		1		1
56	Eilts	Henry	M	M		1	1	1	1	1	1		
57	El-Rayes	Mohamed	M New	No					1	1			
58	Entzminger	Lindell	No	No									
59	Epstein	Mark	M	M	1	1	1	1	1	1	1		1
60	Feder	Peretz	M	M			1	1	1		1		
61	Ferguson	Alistair	M	M	1		1		1				
62	Fong	Mo-Han	No	No			1						
63	Freeland	Graham	M	M			1	1	1		1		1
64	Gal	Dan	M	M	1	1	1	1	1				
65	Garcia-Alis	Daniel	M	M	1		1	1	1		1		1
66	Garg	Deepshikha	M	M	1	1	1	1	1		1		
67	Giles	Arthur	M	No	1	1	1	1	1				
68	Gomes	Eladio	M	M	1	1		1	1		1		
69	Gore	Dhananjay	M	M				1	1		1		1
70	Gorodetsky	Svetlana	M	M	1		1	1	1		1		
71	Gorokhov	Alexei	M	M			1	1	1		1		1
72	Greenspan	Arnie	M	M							1		1
73	Gunduzhan	Emre	No	No					1				
74	Guo	Qiang	M	M			1	1	1	1			
75	Habab	Zion	No	No				1					
76	Han	Youngnam	No	No					1				
77	Hatakawa	Yasuyuki	No	No			1						
78	Haug	John	No	No									1
79	Ho	Jin-Meng	M	No			1	1	1				
80	Hong	Songnam	M New	No					1	1			
81	Hou	Victor	M	M	1	1	1	1	1	1	1		1
82	Howard	Fred	M	No		!	1	1	1				
83	Hu	Rose	M	M				1	1	1	1		
84	Hu	Teck	M	M					1	1	1		1
85	Huang	Haiming	No	No					1				
86	Humbert	John	M New	M New			1	1					
87	Huo	David	M	M	1		1	1	1				1
88	Hur	Yerang	M New	M New					1	1			
89	Ibbetson	Luke	M	M			1		1		1		
90	Iimuro	Kazuyoshi	M	M			1	1	1		1		1
91	Ikeda	Yutaka	No	No							1		
92	Ishida	Kazuhito	No	No									1
93	Ishikawa	Hiroyasu	No	No			1						
94	Jeong	Moo Ryong	No	No			1						
95	Jeong	Byung-Jang	M	M			1	1	1		1		



	A	B	J	K	P	Q	R	S	T	U	W	X	Y
96	Jette	Alan	M	M			1	1	1	1	1		1
97	Ji	Baowei	M	M					1	1	1		
98	Ji	Tingfang	M	M			1	1	1		1		1
99	Johnson	Brian	No	No			1						
100	Jones	Dennis	M	M	1	1	1	1	1				
101	Joo	Pan Yuh	No	No				1		1			
102	Kadous	Tamer	M	M			1	1	1		1		1
103	Kalhan	Amit	M	M			1	1	1		1		1
104	Kanai	Takeo	No	No							1		
105	Kang	Hyunjeong	M New	M New				1	1				
106	Kasch	William	M	No		1	1	1	1				
107	Katayama	Masahide	No	No							1		
108	Khademi	Majid	M	M	1		1	1	1		1		
109	Khan	Farooq	No	No				1					
110	Khandekar	Aamod	M	M			1	1	1		1		1
111	Khatibi	Farrokh	M	M	1		1	1	1		1		1
112	Kiernan	Brian	M	M		1	1	1	1	1			
113	Kim	Beomjoon	No	No			1						
114	Kim	Hyeon Soo	M	M					1	1	1		
115	Kim	Jae-Ho	M New	M New					1	1			
116	Kim	Joonsuk	No	No					1				
117	Kim	Peter J.W.	M New	M New				1	1				
118	Kim	Tae Young	M	M					1	1	1		1
119	Kim	Yong Ho	M	M			1	1	1		1		
120	Kim	Young-Ho	M New	M New				1	1	1			1
121	Kim	Young Kyun	M	M				1	1		1		
122	Kim	Youngsoo	M	M					1	1	1		
123	Kim	Kanghee	No	No				1					
124	Kimura	Shigeru	M	M			1	1	1		1		
125	Kitahara	Minako	M	M	1		1	1	1		1		1
126	Kitamura	Takuya	M New	M New			1	1		1			
127	Klerer	Mark	M	M	1	1	1	1	1	1	1		1
128	Knisely	Douglas	M	M			1	1	1	1	1		
129	Knowles	Skip	No	No									
130	Ko	Young-Jo	M	No			1	1					
131	Kogianitis	Achilles	No	No									
132	Kolze	Tom	M	M					1	1	1		
133	Koo	Changhoi	M	M			1	1	1	1	1		
134	Koplyay	Ferenc	M New	M New					1	1			
135	Kujawski	Fred E.	No	No							1		
136	Kwon	Dong Seung	M New	M New			1	1		1			
137	Kwon	Jae Kyun	No	No			1						
138	Kwon	Young Hyoun	M	M			1	1	1				
139	Lalaguna	Pablo	M	M	1	1	1	1	1		1		
140	Lawrence	Lisa	M	M	1		1	1	1				
141	Lee	Heesoo	M	M			1	1	1	1	1		1
142	Lee	Jungwon	M New	M New				1	1				
143	Lee	Mihyun	M	M				1	1		1		1

	A	B	J	K	P	Q	R	S	T	U	W	X	Y
144	Lee	Sungjin	M New	M New				1	1				
145	Lee	Wook-Bong	M	M			1	1	1	1			
146	Lestable	Thierry	M New	No					1	1			
147	Li	Jaing	No	No			1						
148	Li	Jun	M New	M New		1	1			1			
149	Li	Thomas	No	No				1		1			
150	Li	Yingyang	M	M					1	1	1		
151	Lim	Hyoung Kyu	M	M			1	1	1	1			
152	Lin	Jiezhen	M	M	1		1	1	1	1			
153	Liu	Walter	M New	M New					1	1			
154	Livshitz	Michael	No	No					1				
155	Loh	Lee Ying	No	No									
156	Lozano	Angel	No	No			1						
157	Lu	Jianmin	No	M New			1	1		1			
158	Ma	Steven	M	M			1	1	1	1			
159	Maez	Dave	No	No									
160	Martynov	Irina	M	M	1	1	1	1	1		1		1
161	Martynov	Michael	M	M	1	1	1	1	1		1		1
162	McGinniss	David	M New	M New				1	1				
163	McMahon	Anthony	M	M			1	1	1		1		1
164	McMillan	Donald	M	M	1	1	1	1	1		1		
165	Miyazono	Max	M	M	1		1		1		1		
166	Modlin	Cory	No	No			1						
167	Mollenauer	James	M	M	1	1	1	1	1	1	1		
168	Murakami	Kazuhiro	M	M	1		1	1	1		1		
169	Murphy	Peter	M	M			1	1	1				
170	Naaman	Laith	M New	M New				1	1				
171	Nabar	Rohit	M	M				1	1		1		
172	Nagai	Yukimasa	M New	M New			1		1				
173	Naguib	Ayman	M	M	1	1	1	1	1				1
174	Naidu	Mullaguru	M	M	1		1	1	1		1		1
175	Nakamura	Kenichi	M	M				1	1		1		
176	Nakamura	Tetsuya	M	M			1	1	1		1		1
177	Nakano	Shinji	M	M			1	1	1		1		1
178	Nguyen	Nha	M	M	1	1	1	1	1		1		1
179	Nicolas	Julien	M	No			1	1	1				
180	Noh	Taegyun	M	M					1	1	1		
181	Novick	Fred	M	M	1	1	1	1	1		1		
182	O'Brien	Francis	M New	M New			1	1					1
183	Odlyzko	Paul	M	M			1	1	1	1			
184	Oguma	Hiroshi	M	M			1		1	1	1		
185	Oh	Changyoon	M New	M New					1	1			
186	Ovadia	Shlomo	No	No						1			
187	Panicker	John	M New	M New					1	1			
188	Park	Chul	M	M				1	1	1	1		
189	Park	DS	M	M					1	1	1		
190	Park	Jeongho	M	M					1	1	1		
191	Park	Won-Hyoung	M	M			1	1	1	1			

	A	B	J	K	P	Q	R	S	T	U	W	X	Y
192	Patzer	Steve	M	M			1	1	1	1			
193	Perini	Patrick	M	No			1	1	1				
194	Pfann	Eugen	M	M			1	1	1		1		1
195	Ping	Luo	M	No				1					
196	Pirhonen	Riku	M	M	1	1	1	1	1	1	1		
197	Pittampalli	Eshwar	M New	M New			1	1					
198	Poisson	Sebastien	M	M	1	1	1	1	1		1		
199	Polcari	Amy	M	No	1			1	1				
200	Polsgrove	Jim	M	No	1	1	1	1	1				
201	Prakash	Rajat	M	M	1	1	1	1	1	1	1		1
202	Preece	Rob	M	M	1	1	1	1	1		1		1
203	Priebe	Russell	No	No									
204	Pulcini	Gregory	No	No									
205	Puthenkulam	Jose	M	M			1	1	1	1			
206	Qian	Xiaoshu	M	M			1	1	1	1			
207	Ragsdale	James	M	M	1		1	1	1	1	1		
208	Rajadurai	Rajavelsamy	M New	M New					1	1			
209	Rajkumar	Ajay	M	M	1	1	1	1	1	1			
210	Razoumov	Leonid	M New	No				1	1				
211	Salminen	Reijo	M New	No			1		1				
212	Sampath	Hemanth	M	M			1	1	1		1		1
213	Sano	Masato	M	M		1	1	1	1		1		1
214	Santhanakrishnan	Anand	M New	M New					1	1			
215	Sasaki	Shigenobu	M	M					1	1	1		
216	Semper	Bill	No	No						1			
217	Seo	Bangwon	M	M					1	1	1		
218	Shabtay	Ophir	No	No				1					
219	Shasha	Eli	No	No				1					
220	Shepard	Johnny	No	No		1							
221	Shields	Judy	M	M	1	1	1	1	1				
222	Shively	David	M	M			1		1		1		
223	Shoji	Hiryuki	No	No						1			
224	Shono	Takashi	M	M				1	1	1	1		
225	Sihn	Gyung Chul	M	M					1	1	1		
226	Sivanesan	Kathiravetpilla i	M	M				1	1		1		
227	Son	Jungje	No	No				1					
228	Son	Yeongmoon	M	No			1	1	1	1			
229	Song	Young Seog	M	M					1	1	1		
230	Sorensen	Henrik	M New	M New				1	1				
231	Springer	Warren	M	M	1		1		1				
232	Srinivasan	Roshni	M	M					1	1	1		1
233	Staver	Doug	M	M	1	1	1		1				
234	Stone	Mike	No	No									
235	Stuby	Richard	M	M				1	1	1	1		
236	Su	David	No	No					1				
237	Suh	Changho	M	No			1	1	1	1			

	A	B	J	K	P	Q	R	S	T	U	W	X	Y
238	Suh	Mark	M	M					1	1	1		1
239	Surcobe	Valentin	M	M		1			1	1	1		
240	Sutivong	Arak	M	No			1	1					
241	Suzuki	Tomohiro	M	M			1	1	1		1		1
242	Tamaki	Satoshi	No	No				1					
243	Tan	Teik-Kheong	No	No							1		
244	Tang	Xiangguo	M New	No				1	1				
245	Teague	Harris	M	M			1	1	1		1		1
246	Tee	Lai-King Anna	M	M			1	1	1	1	1		1
247	Tomcik	James	M	M	1	1	1	1	1	1	1		1
248	Toro	Steven	M	No				1					
249	Trick	John	M	No	1	1	1	1	1				
250	Ulupinar	Fatih	M	M			1	1	1				
251	Upton	Jerry	M	M	1	1	1	1	1	1	1		1
252	Vaidya	Rahul	M New	M New					1	1			
253	Valbonesi	Lucia	M	M			1	1	1	1			
254	Valls	Juan Carlos	M	M	1	1	1	1	1		1		1
255	Vijayan	Rajiv	M	M			1	1	1		1		1
256	Vivanco	Silvia	M	M	1		1		1		1		1
257	Wan	Jane	No	No					1				
258	Wasilewski	Thomas	M	M	1	1		1	1		1		
259	Watanabe	Fujio	M New	M New		1	1						
260	Wieczorek	Alfred	M	M	1		1	1		1			
261	Wilson	Joanne	M	M	1		1	1	1	1	1		1
262	Wu	Gang	M	No	1		1		1				
263	Wu	Geng	M New	M New			1		1	1			
264	Yaghoobi	Hassan	M	M			1	1	1	1			
265	Yallapragada	Rao	M	M			1	1	1		1		1
266	Yeh	Choongil	M	M			1	1	1	1	1		
267	Yin	Hujun	M	M			1	1	1	1			
268	Yoo	Do-Sik	No	No				1					
269	Yoon	Young C.	No	No			1						
270	Youssefmir	Michael	M	M	1	1	1	1	1		1		
271	Yuda	Tetsuya	M	M	1	1	1	1	1				
272	Yun	Jungnam	M New	M New					1	1			
273	Yuza	Masaaki	M	M			1				1		
274	Zhu	Chenxi	No	No				1					
275	Zhu	Peiyong	M New	M New			1		1				
276	* Shaded blue indicates loss of membership status												

**Appendix A-2**

**Declaration of Affiliations**

### 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	
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	<a href="http://www.francetelecom.com/en">www.francetelecom.com/en</a>
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		Qualcomm	
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	Carson	Peter	Qualcomm, Inc.	Same	Not Applicable	Not Applicable	
20	Castell	Harold P.	Bussey Consulting Services, Inc.	Qualcomm	Chris J Bussey	Not Applicable	www.qualcomm.com
175	Chae	Suchang	ETRI(Electronics and Telecommunications Research Institute)	Same	Not Applicable	Not Applicable	www.etri.re.kr

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

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



68	Kadous	Tamer	Qualcomm, Incorporated	Same	Not Applicable	Not Applicable	<a href="http://www.qualcomm.com">http://www.qualcomm.com</a>
69	Kalhan	Amit	Kyocera Telecommunications Research Corporation	Same	Kyocera Corporation	Kyocera Corporation	<a href="http://www.ktrc-na.com">www.ktrc-na.com</a>
70	Kanai	Takeo	Symbies, Inc.	Softbank BB Corp.	N/A	N/A	<a href="http://www.symbies.com/">http://www.symbies.com/</a>
71	Kang	Hyunjeong	Samsung Electronics Company	Same	Samsung Electronics Company	Not Applicable	<a href="http://www.samsung.com">www.samsung.com</a>
72	Katayama	Masahide	Kyocera Corp	same	not applicable	Not Applicable	<a href="http://www.kyocera.co.jp">www.kyocera.co.jp</a>
73	Kawabata	Hiro	Qualcomm	Same	not Applicable	Not Applicable	<a href="http://www.qualcomm.com">http://www.qualcomm.com</a>
74	Khademi	Majid	Khademi Consulting	Khademi Consulting	Not Applicable	Not Applicable	
75	Khandekar	Aamod	Qualcomm, Incorporated	Same	Not Applicable	Not Applicable	<a href="http://www.qualcomm.com">http://www.qualcomm.com</a>
76	Khatibi	Farrokh	Qualcomm, Incorporated	Same	Not Applicable	Not Applicable	<a href="http://www.qualcomm.com">http://www.qualcomm.com</a>
77	Kiernan	Brian	Interdigital Communications Corp	same	not applicable	Not Applicable	<a href="http://www.interdigital.com">www.interdigital.com</a>
78	Kim	Hyeon Soo	Samsung Electronics Company	Same	Samsung Electronics Company	Not Applicable	<a href="http://www.samsung.com">www.samsung.com</a>
79	Kim	Jae-Ho	ETRI	Same	Not Applicable	Not Applicable	<a href="http://www.etri.re.kr">www.etri.re.kr</a>
80	Kim	Peter	TTA	same	Not Applicable	Not Applicable	<a href="http://www.tta.or.kr">www.tta.or.kr</a>
81	Kim	Taeyoung	Samsung Electronics Company	Same	Samsung Electronics Company	Not Applicable	<a href="http://www.samsung.com">www.samsung.com</a>
82	Kim	Yong Ho	LGE	Same	Not Applicable	Not Applicable	<a href="http://www.lge.com">www.lge.com</a>
83	Kim	Young Ho	Samsung Electronics Company	Same	Samsung Electronics Company	Not Applicable	<a href="http://www.samsung.com">www.samsung.com</a>
84	Kim	Young Kyun	Samsung Electronics Company	Same	Samsung Electronics Company	Not Applicable	<a href="http://www.samsung.com">www.samsung.com</a>
85	Kim	Youngsoo	Samsung Electronics Company	Same	Samsung Electronics Company	Not Applicable	<a href="http://www.samsung.com">www.samsung.com</a>
86	Kimura	Shigeru	Kyocera Corp.	Same	Not Applicable	Not Applicable	<a href="http://www.kyocera.co.jp">www.kyocera.co.jp</a>
118	Kitahara	Minako	Kyocera Corp.	Same	Not Applicable	Not Applicable	<a href="http://www.kyocera.co.jp">www.kyocera.co.jp</a>
87	Kitamura	Takuya	Fujitsu Limited	Same	Not Applicable	Not Applicable	<a href="http://www.fujitsu.com">www.fujitsu.com</a>
88	Klerer	Mark	QUALCOMM Flarion Technologies	Same	QUALCOMM, Incorporated	Not Applicable	<a href="http://www.qualcomm.com/qft/">http://www.qualcomm.com/qft/</a>
89	Knisely	Douglas	Airvana, Inc.	Same	Not Applicable	Not Applicable	<a href="http://www.airvana.com">www.airvana.com</a>

90	Kolze	Tom	Broadcom	same	Not applicable	Not applicable	Broadcom.com
91	Koo	Changhoi	Samsung Telecommunications America, LLP	Samsung Electronics	Same	Same	www.samsungtelecom.com
92	Koplyay	Ferenc	Freescale Semiconductor	Same	N/A	N/A	www.freescale.com
93	Kujawski	Fred	AirCell Inc.	Same	Not Applicable	Not Applicable	<a href="http://www.aircell.com">www.aircell.com</a>
94	Kwon	Dong-Seung	ETRI	same	Not applicable	Not applicable	www.etri.re.kr
95	Kwon	Young-Hyoun	LGE	Same	Not Applicable	Not Applicable	www.lge.com
96	Lalaguna	Pablo	MedStar Systems, LLC	Qualcomm		Qualcomm	<a href="http://www.medstarsystems.com">www.medstarsystems.com</a>
97	Lawrence	Lisa	CTCI	CTCI	Not applicable	Not applicable	Lisa.lawrence@ctci.ca
98	Lee	Heesoo	ETRI	Same	Not Applicable	Not Applicable	www.etri.re.kr
99	Lee	Jungwon	Marvell Semiconductor Inc	Same	Marvell Technology Group, Ltd	Not Applicable	www.marvell.com
100	Lee	Mihyun	Samsung Electronics Company	Same	Samsung Electronics Company	Not Applicable	www.samsung.com
101	Lee	Sungjin	Samsung Electronics Company	Same	Samsung Electronics Company	Not Applicable	www.samsung.com
102	Lee	Wook-Bong	LGE	Same	Not Applicable	Not Applicable	www.lge.com
103	Li	Jun	Nortel Networks, Inc.	Same	Nortel Networks, Inc.	Not Applicable	www.nortel.com
104	Li	Thomas	Huawei Technologies Co,Ltd	Same	not applicable	Not Applicable	<a href="http://www.huawei.com">http://www.huawei.com</a>
105	Li	Yingyang	Beijing Samsung Telecommunication	Same	Samsung Electronics Company	Not Applicable	www.samsung.com
106	Lim	Hyoung Kyu	Samsung Electronics Company	Same	Samsung Electronics Company	Not Applicable	www.samsung.com
107	Lin	Jiezhen	Siemens Network Ltd, Beijing	Siemens Ltd., China	Siemens AG	Siemens AG	www.siemens.com.cn
108	Liu	Walter	FutureWei Technologies, In	Same	Huawei Technologies Co.,Lt	N/A	www.futurewei.com
109	Lo	Titus	Neocific, Inc.	Same	N/A	N/A	
110	Lu	Jianmin	FutureWei Technologies, In	Same	Huawei Technologies Co.,Lt	N/A	www.futurewei.com
111	Ma	Steve	Freescale Semiconductor	Same	N/A	N/A	www.freescale.com
112	Maez	David	Navini Networks	Same	Not Applicable	Not Applicable	<a href="http://www.navini.com">www.navini.com</a>
113	Martynov	Irina	Belgud International	Qualcomm		Qualcomm	
114	Martynov	Michael	Belgud International	Qualcomm		Qualcomm	

115	McGinniss	David S.	Sprint Nextel	Same	Not Applicable	Not Applicable	www.sprint.com
116	McMahon	Anthony	Institute for System Level Integration	Strathclyde University	Not applicable	Not applicable	www.sli-institute.ac.uk
117	McMillan III	Donald C.	Advanced Network Technical Solutions, Inc.	Same	N/A	N/A	www.antsinc.com
118	Miyazono	Max	Qualcomm Inc	Same	Not Applicable	Not Applicable	www.qualcomm.com
119	Mollenauer	Jim	Technical Strategy Associates	Motorola Inc.	Not applicable	Not Applicable	Technicalstrategy.com
120	Murakami	Kazuhiro	Kyocera Corporation	Same	Not Applicable	Not Applicable	www.kyocera.co.jp
121	Murphy	Peter A.	Intel Corp.	Same	Not applicable	Not applicable	www.intel.com
122	Naaman	Laith	Intel Corp.	Same	Not Applicable	Not Applicable	www.intel.com
123	Nabar	Rohit	Marvell Semiconductor Inc	Same			<a href="http://www.marvell.com">www.marvell.com</a>
124	Nagai	Yukimasa	Mitsubishi Electric	Same	Not Applicable	Not Applicable	<a href="http://www.mitsubishielectric.co.jp/">http://www.mitsubishielectric.co.jp/</a>
125	Naguib	Ayman	Qualcomm Inc.	Same	Not Applicable	Not Applicable	www.qualcomm.com
126	Naidu	Mullaguru	Qualcomm, Incorporated	Same	Not Applicable	Not Applicable	<a href="http://www.qualcomm.com">http://www.qualcomm.com</a>
127	Nakamura	Kenichi	Fujitsu Limited	Same	Not Applicable	Not Applicable	www.fujitsu.com/global/
128	Nakamura	Tetsuya	NTT MCL Inc.	same	NTT Corp.	Not Applicable	<a href="http://www.nttmcl.com">www.nttmcl.com</a>
129	Nakano	Shinji	Kyocera Corp.	Same	Not Applicable	Not Applicable	www.kyocera.co.jp
130	Navidi	Pierre	XG Stream Ltd	OAK GLOBAL SA	Not Applicable	Not Applicable	
131	Ngo	Chiu	Samsung Electronics	Same	N/A	N/A	www.samsung.com
132	Nguyen	Nha	Bussey Consulting Services, Inc.	Qualcomm	Chris J Bussey	Not Applicable	www.qualcomm.com
133	Noh	Taegyun	ETRI	Same	Not Applicable	Not Applicable	www.etri.re.kr
134	Novick	Fred	Bussey Consulting Services, Inc.	Qualcomm	Chris J Bussey	Not Applicable	www.qualcomm.com
135	O'Brien	Francis E.	Lucent Technologies	Same	Lucent Technologies	Not applicable	www.lucent.com
136	Odlyzko	Paul	Motorola	same	Not Applicable	Not Applicable	

137	Oguma	Hiroshi	Industrial Technology Institute Miyagi Prefecture Government	Tohoku University	Not Applicable	Not Applicable	<a href="http://www.mit.pref.miyagi.jp">http://www.mit.pref.miyagi.jp</a>
138	Oh	Changyoon	Samsung Electronics Company	Same	Samsung Electronics Company	Not Applicable	<a href="http://www.samsung.com">www.samsung.com</a>
139	Opreescu	Val	Motorola, Inc.	Same	Not Applicable	Not Applicable	<a href="http://www.motorola.com">www.motorola.com</a>
140	Palanivelu	Arul	Marvell Semiconductor Inc	Same			<a href="http://www.marvell.com">www.marvell.com</a>
141	Panicker	John	NORTEL	Same	Not Applicable	Not Applicable	<a href="http://www.nortel.com">www.nortel.com</a>
142	Park	Chul	ETRI(Electronics and Telecommunications Research Institute)	Same	Not Applicable	Not Applicable	<a href="http://www.etri.re.kr">www.etri.re.kr</a>
143	Park	DS	Samsung Electronics Company	Same	Samsung Electronics Company	Not Applicable	<a href="http://www.samsung.com">www.samsung.com</a>
144	Park	Jeongho	Samsung Electronics Company	Same	Samsung Electronics Company	Not Applicable	<a href="http://www.samsung.com">www.samsung.com</a>
145	Park	Won-Hyoung	SK Telecom	Same	Not Applicable	Not Applicable	<a href="http://www.sktelecom.com">www.sktelecom.com</a>
146	Patzer	Steve	Intel Corp.	SAME	Not Applicable	Not Applicable	
147	Pfann	Eugen	University of Strathclyde	same	not applicable	not applicable	<a href="http://www.strath.ac.uk">www.strath.ac.uk</a>
148	Pirhonen	Riku	Nokia Oyj	Same	Not Applicable	Not Applicable	<a href="http://www.nokia.com">www.nokia.com</a>
149	Pittampalli	Eshwar	Lucent Technologies	Same	Not Applicable	Not Applicable	<a href="http://www.lucent.com">www.lucent.com</a>
150	Poisson	Sebastien	Oasis Wireless Inc	Same	N/A	N/A	<a href="http://www.oasiswireless.net">www.oasiswireless.net</a>
151	Prakash	Rajat	Qualcomm Inc	Same	Not Applicable	Not Applicable	<a href="http://www.qualcomm.com">www.qualcomm.com</a>
152	Preece	Rob	Bussey Consulting Services, Inc.	Qualcomm	Chris J Bussey	Not Applicable	<a href="http://www.qualcomm.com">www.qualcomm.com</a>
153	Puthenkulam	Jose	Intel Corporation	Same	Not Applicable	Not Applicable	<a href="http://www.intel.com">http://www.intel.com</a>
154	Qian	Xiaoshu	Intel Corporation	Same	N/A	N/A	<a href="http://www.intel.com">www.intel.com</a>
155	Ragsdale	Jim	Ericsson Inc	Telefon AB - L.M. Ericsson	Telefon AB - L.M. Ericsson	same	<a href="http://www.ericsson.com/us">http://www.ericsson.com/us</a>
156	Rajadurai	Rajavelsamy	Samsung India Software Operations Private Limited	Same	Samsung Electronics Company	Same	<a href="http://www.samsungindiasoft.com">http://www.samsungindiasoft.com</a>
157	Rajkumar	Ajay	Lucent Technologies Inc.	Same			<a href="http://www.lucent.com">www.lucent.com</a>

158	Sampath	Hemanth	Qualcomm, Incorporated	Same	Not Applicable	Not Applicable	
159	Sano	Masato	Kyocera Corp.	Same	Not Applicable	Not Applicable	<a href="http://www.kyocera.co.jp">www.kyocera.co.jp</a>
160	Santhanakrishnan	Anand	Samsung India Software Operations Private Limited	Same	Samsung Electronics Company	Same	<a href="http://www.samsungindiasoft.com">http://www.samsungindiasoft.com</a>
161	Sasaki	Shigenobu	Niigata University	Same	Not applicable	Not Applicable	<a href="http://www.niigata-u.ac.jp">www.niigata-u.ac.jp</a>
162	Seo	Bangwon	ETRI	Same	Not Applicable	Not Applicable	<a href="http://www.etri.re.kr">www.etri.re.kr</a>
163	Shields	Judy	Ladcomm	same	NA	NA	
165	Shively	David	Cingular Wireless	Same	AT&T / BellSouth	Same	<a href="http://www.cingular.com">www.cingular.com</a>
166	Shono	Takashi	Intel K.K.	Same	Intel Corporation	Same	<a href="http://www.intel.co.jp">www.intel.co.jp</a>
164	Sihn	Gyung-Chul	ETRI	Same	Not Applicable	Not Applicable	<a href="http://www.etri.re.kr">www.etri.re.kr</a>
167	Sivanesan	Kathiravetpillai	Samsung Electronics Company	Same	Samsung Electronics Company	Not Applicable	<a href="http://www.samsung.com">www.samsung.com</a>
168	Song	LeiLei	Marvell Semiconductor Inc	Same			<a href="http://www.marvell.com">www.marvell.com</a>
169	Song	Young Seog	ETRI	same	Not applicable	Not applicable	<a href="http://www.etri.re.kr">www.etri.re.kr</a>
170	Sorensen	Henrik	Agere Systems	Same	Not applicable	Not Applicable	<a href="http://www.agere.com">www.agere.com</a>
171	Springer	Warren	Springer Associates	Same	Not Applicable	Not Applicable	
172	Srinivasan	Roshni	Intel Corporation	Same	Not Applicable	Not Applicable	URL <a href="http://www.intel.com">www.intel.com</a>
173	Staver	Doug	3581969 Canada Inc.	Same	Not Applicable	Not Applicable	
174	Stuby	Rick	Agere Systems	Same	Not Applicable	Not Applicable	<a href="http://www.agere.com">www.agere.com</a>
176	Suh	Mark	Samsung Telecommunications America	Same	Samsung Electronics Company	Not Applicable	<a href="http://www.samsungtelecom.com">www.samsungtelecom.com</a>
177	Surcobe	Valentin	Motorola	same	Not applicable	Not Applicable	<a href="http://www.motorola.com">www.motorola.com</a>
178	Suzuki	Tomohiro	Kyocera Corp.	Same	Not Applicable	Not Applicable	<a href="http://www.kyocera.co.jp">www.kyocera.co.jp</a>
179	Tan	Teik-Kheong (TK)	NXP Semiconductors	Same	Not Applicable	Not Applicable	<a href="http://www.nxp">www.nxp</a>
180	Teague	Harris	Qualcomm, Incorporated	Same	Not Applicable	Not Applicable	<a href="http://www.qualcomm.com">http://www.qualcomm.com</a>
181	Tee	Anna	Samsung Telecommunications America	Same	Samsung Electronics Co., Ltd.	Not Applicable	<a href="http://www.samsungwireless.com">http://www.samsungwireless.com</a>

182	Tomcik	Jim	Qualcomm,	Same	Not Applicable	Not Applicable	<a href="http://www.qualcomm.com">http://www.qualcomm.com</a>
183	Ulupinar	Fatih	Qualcomm, Incorporated	Same	Not Applicable	Not Applicable	<a href="http://www.qualcomm.com">http://www.qualcomm.com</a>
184	Upton	Jerry	Self, JUpton Consulting	Qualcomm and Self	NA	Qualcomm, Inc. and Self	
185	Vaidya	Rahul	Samsung India Software Operations Private Limited	Same	Samsung Electronics Company	Same	<a href="http://www.samsungindiasoft.com">http://www.samsungindiasoft.com</a>
186	Valbonesi	Lucia	Motorola, Inc.	Same	Not Applicable	Not Applicable	<a href="http://www.motorola.com">www.motorola.com</a>
187	Valls	Juan Carlos	Telecommunications Management Group	Qualcomm, Inc.	Not applicable	Not applicable	<a href="http://www.tmgtelecom.com">www.tmgtelecom.com</a>
188	Vijayan	Rajiv	Qualcomm, Incorporated	Same	Not Applicable	Not Applicable	<a href="http://www.qualcomm.com">http://www.qualcomm.com</a>
189	Vivanco	Silvia	Telecommunications Management Group	Qualcomm	Not applicable	Not applicable	<a href="http://www.tmgtelecom.com">www.tmgtelecom.com</a>
190	Ward Jr	Robert M	Northrop Grumman	Same	N/A	N/A	
191	Wasilewski	Tom	Qualcomm Incorporated	Same	Not Applicable	Not Applicable	<a href="http://www.qualcomm.com">http://www.qualcomm.com</a>
192	Watanabe	Fujio	DoCoMo Communications Laboratories USA, Inc.	Same	NTT DoCoMo USA, Inc.	Not Applicable	<a href="http://www.docomolabs-usa.com">www.docomolabs-usa.com</a>
193	Wieczorek	Al	Motorola, Inc.	Same	Not Applicable	Not Applicable	<a href="mailto:Al.Wieczorek@Motorola.com">Al.Wieczorek@Motorola.com</a>
194	Wilson	Joanne	ArrayComm, LLC	Same	Ygomi, LLC	Ygomi, LLC	<a href="http://www.arraycomm.com">www.arraycomm.com</a>
195	Wu	Geng	Nortel Networks.	Same	Not Applicable	Not Applicable	<a href="http://www.nortel.com">www.nortel.com</a>
196	Xiaoshu	Qian	Intel Corp	Same	N/A	N/A	<a href="http://www.intel.com">www.intel.com</a>
197	Yaghoobi	Hassan	Intel Corporation	Same	Not Applicable	Not Applicable	<a href="http://www.intel.com">www.intel.com</a>
198	Yallapragada	Rao	Qualcomm, Incorporated	Same	Not Applicable	Not Applicable	<a href="http://www.qualcomm.com">http://www.qualcomm.com</a>
199	Yeh	Choong il	ETRI	same	Not applicable	Not applicable	<a href="http://www.etri.re.kr">www.etri.re.kr</a>
200	Yin	Hujun	Intel Corp.	Same	N/A	N/A	<a href="http://www.intel.com">www.intel.com</a>
201	Youssefmir	Michael	Self	ArrayComm		Ygomi Group	<a href="http://www.arraycomm.com">www.arraycomm.com</a>
202	Yuda	Tetsuya	Kyocera Corp.	Same	Not Applicable	Not Applicable	<a href="http://www.kyocera.co.jp">www.kyocera.co.jp</a>
203	Yun	Jungnam	POSDATA Co. Ltd.,	Same	Not Applicable	Not Applicable	<a href="http://www.posdata.co.kr">www.posdata.co.kr</a>

204	Yuza	Masaaki	NEC Infrontia Corp.	same	NEC Corp.	Not Applicable	www.necinfrontia.co.jp
205	Zhu	Peiying	Nortel	Same	Not Applicable	Not Applicable	www.nortel.com

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