

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Other MAC/PHY adhoc – Minutes of the second conference call	
Date Submitted	2007-04-26	
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Re:		
Abstract	Minutes of the second conference call of the Relay TG's Other MAC/PHY ad hoc, held on 19 April 2007.	
Purpose	Information	
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Other MAC/PHY Ad-hoc: Minutes of the second conference call

Peiying Zhu

Date and Time: Thursday 19 April 2007, 13:00 GMT

Attendance:

Chair: Mike Hart
 Vice-chair: Dorin Viorel

Participants:		Qu Hongyun	yes
Adrian Boariu	yes	Rakesh Taori	no
Aik Chindapol	no	Ranga Reddy	yes
Bill Shvodian	no	Robert Popoli	no
Changhoi Koo	no	Roger Peterson	no
Chia-Chin Chong	no	Sean Cai	no
Dale Branlund	no	Shashikant Maheshwari	yes
Daqiang Gu	no	Gamini Senarath	
Dave Pechner	no	Shaw Tayler	no
David Chen	no	Shulan Feng	no
David Steer	no	Shyamal Ramachandran	no
Derek Yu	yes	Suchang Chae	yes
Du	no	Sunggeun Jin	yes
Fujio Watanabe	no	Sungjin Lee	no
Fang-Ching (Frank) Ren	yes	Suga Junichi	yes
Gerrit Hiddink	no	Ulas Kozat	no
Gokhan Korkmaz	no	Wei-Peng Chen	yes
haihong zheng	yes	YoungBin Chang	no
Hang Zhang	yes	Young-il Km	no
Hua-Chiang Yin	yes	Young-Jae Kim	no
I-Kang Fu	no	Youn-Tai Lee	yes
Ismail Guvenc	yes	Yousuf Saifullah	no
Jae Hyung Eom	yes	Yung-Ting Lee	yes
Jerry Chow	no	Yufeng Zhou	yes
Jimin Liu	no		
John Lee	no		
Kanchei (Ken) Loa	yes		
Keiichi Nakatsugawa	no		
Kim Olszewski	no		
Kumar Prachi	no		
Kyu Ha Lee	yes		
Li Anxin	yes		
Li Ting	yes		
Mary Choin	no		
Mike Hart	yes		
Mike Webb	no		
Mitius Nohara	no		
Mo-han Fong	no		
Moo Ryong Jeong	no		
Norin John	no		
Peiying Zhu	yes		
Peter Wang	no		
Priscillica Santos	no		

Minutes:

The meeting started at 9:00am EST on 19 April 2007 with Peiying Zhu as chair and Mike Hart as vice-chair. The agenda emailed on 17 April 2007, updated on 19 April was followed.

Roll Call

The participants listed above identified themselves as participating in the meeting.

Discuss if we should accept the new contribution (7286)

The author of 7286 believed that is this contribution is related to the contributions 7251 and 7258. Mike mentioned that 7286 is not related to 7251 since 7286 deals with the high order MIMO support, while 7251 deals with AAS support. Mike also mentioned that 7286 is loosely related to 7258, however the two contributions addressed separate issues, 7258 deals with cooperative relay, while 7286 deals with high order MIMO support.

Due to the absence of the authors of 7258, no decision was made whether to include this contribution in the ad-hoc discussion.

Action: Authors of 7258 to review the contribution of 7286 and send Email to indicate if they see the commonality between 7258 and 7286.

Discuss deferred contributions (7206r1, 7207r2, 7258)

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7206r1: Hongyun Qu presented the contribution 7206r1. Yufeng raised the following issues :

1. The proposed solution increases overhead
2. The proposal used the absolute number instead of relative number, which may be conflict with the case where the frame number of MR-BS and all RSs are not synchronized (see contribution 240r1).
3. Do not see the need send NACK
4. MAC sub header is encrypted; there might be a security issue.

Derek Yu raised the following concern:

1. The proposal appears to introduce some timing flexibility, which may impact the performance of MBS.

Mike raised the following question:

1. What are the scenarios where the scheme defined in the baseline will fail?

Mary provided answers to some of the issues. And some of these issues were discussed via Emails before. The Chair feels that more discussions are needed.

Actions:

1. Mary and Yufeng: continue the discussion via ad-hoc Email list on item 3.
2. Yufeng: review Mary's answer on item 2, and send Email to indicate if the answer is satisfactory.
3. Mary: send Email to address the concern on item 1

4. Mary: make sure sub header format is consistent with the format agreed in MAC PDU ad-hoc.
5. Peiyong: send a note to security ad-hoc group
6. Derek: Send Email to explain the concerns, Hongyue or Mary will answer the question?
7. Hongyue or Mary: List the scenarios where the scheme defined in the baseline will fail?

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7207r2: Hongyun Qu presented the contribution 7207r2.

Yufeng commented that this contribution is related to 7148, which was deferred pending on the resolution of the security. WenPeng raised the following issues:

1. It is not clear what kind of situations the proposed sub header will be used.
2. Concern on the penalty of sub header
3. The proposed reporting metrics (number of discard MAC PDUs) are not enough for the scheduler.

Actions:

1. WenPeng: Send questions via Email
2. Hongyun: Review contribution 148 and Email the review results
3. Hongyun: Respond to the above issues.

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7258: The authors are absent. Comment from Mike:

1. The proposed IM-MIMO mode is incomplete, for example, how the interleaving is done?

Chair made a comment that the authors of this contribution were absent in both meetings. If they do not respond to this Email, Chair will recommend to reject the contribution. There is no objection to the above recommendation.

Action: Peiyong: send Email to the authors on the about decision.

Review status of other contributions

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251r1: There were actions from the last meeting to update the contribution. No action was taken by the authors, who were also absent.

Action: Update the contribution before the next CC, otherwise, we will recommend "reject".

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7052r3: The author requested to consider r3 instead of r6. Comment from Mike:

1. The proposal modified the coding/modulation tables, which will confuse legacy MSs.
2. Do not see the benefit of adding new coding rate.

Action: Mike: Send questions via Email. Su Chang: Respond via Email

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7242r2:

1. Mike request more time to review the contribution since he mistakenly reviewed r1.
2. Peiyong raised issue on how the resource allocation is done for cooperative relay mode
3. Mike commented if the modification is aligned with the Cor2

Actions:

1. Mike sends Email on the review outcome

2. Peiying sends Email on the questions

3. Mike/Peiying/Authors: Review if the suggested text are aligned with the modification in Cor2.

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7172r2: I-Kang is absent.

Mike and Peiying raised the same issue: The first paragraph of the proposed text is implementation dependent, no need to add that. The rest of modification is fine.

Recommendation: Accept_modified.

Action: I-Kang to review the recommendation, if ok, modify the contribution.

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7194r2: Ranga made modification based on the last CC's recommendation. No one object the contribution. Mike request to follow the editorial style.

Action: Ranga to update the contribution based on the recommendation convention in the baseline. Upload the contribution 7194r3.

Recommendation: Accept 7194r3, assuming the change in 7194r3 is only editorial style change.

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7026r2: Mike commented that he is updating the contribution to address the comment received in the last CC, i.e., is it necessary to send the IE on frame base?

Action: Mike: Update the document before the next CC.

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7227r2: Ismail updated the contribution based on the comment received from Hang in the last CC, Hang is satisfied with the modification. Yufeng raise the question:

1. How to make sure that the proposed proposal can guarantee the time synchronization for MBS?

Actions:

1. Yufeng: Email the question.

2. Ismail: Provide answer to Yufeng's question.

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796r4: Hang updated the contribution based on the comment from Mary in the last CC. Haihong from Nokia suggested the following modifications to the RS type table:

- 1. Comment related MS-CPS lite
- 2. Reference to QoS header, which is still under discussion
- 3. Type 4 is related to security model

Mike commented that he has some editorial comment on MAC protocol, also asked if it is ok to remove the RS type from the proposed text for now. Hang think it should be ok.

Actions:

1. Haihong: Email Hang the suggested changes

2. Peiying: Send a note to security ad-hoc chair

3. Mike: Email hang comments on protocol

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7250r5: Sunggun updated the contribution based on the comments from the last CC. Derek and Mike raise the following issues:

1. Why do we need another intermediate ARQ considering we have H-ARQ and ARQ? What is the real benefit? Is there simulation results to show the benefit?

Action: Sunggeun: Provide the answers to the above questions via Email

Discuss new contribution based on the outcome of the item 2. (7286)

Since we have not reached the conclusion that this contribution should be addressed in the ad-hoc. No further discussion on this contribution. Mike raise a technical question:

1. Is there a real benefit to have higher order MIMO on UL?

Chair encouraged the attendees to review the contributions and send comments via Email disregard the decision whether this contribution will be handled in this ad-hoc since the contribution will be handled in May meeting anyway.

Actions and plan for moving forward

There will be another CC to discuss the contributions, hopefully to make recommendations. Chair requested that all actions are to be taken before the next CC. The revision of a contribution should be uploaded at least one day ahead of the CC.

Actions:

1. Peiyong to schedule the CC, tentatively, next Thursday morning 9:00 EST.
2. All: Review the actions and take the actions if they are assigned to you.
3. All: Review the recommendations. Send comments if you have concerns.
4. All: Review the contributions and Email comments including the recommendations (i.e., if you support a contribution, recommend accept or accept modified, if you do not support, recommend reject)
5. Please use this updated Email list

The meeting was adjourned at 11:16am EST

The meeting started at 14:08 (GMT+1h) on 29 March 2007 with Mike Hart acting as chair and Dorin Viorel as vice-chair. The agenda emailed on Monday 26 March 2007 was followed.

1. Roll call

The participants listed above identified themselves as participating in the meeting.

2. Review of the deferred contributions & comments

07/179: Ken Loa to circulate updated version to the group by email for review and comment immediately following the meeting.

07/215: Peiyong Zhu & Gamini Senarath will provide a recommendation for 07/215 and associated comment to supersede by an already accepted comment.

07/235: Changyoon & Rakesh to email an updated contribution by the middle of next week and will summarise the issues related to the two approaches discussed so far: STC Zone Switch IE and using D/UIUC 13 (Gap region).

Ken Loa raised a potential issue relating to the R-FCH definition accepted in meeting #48 through contribution 07/193. He will check this and send a proposed comment, if necessary, for the group to consider by email.

07/255: Ken Loa to send updated contribution to the group by email on Monday.

07/265: Ken Loa is going to draw a diagram to cover the case of 07/265 and send to the group by email on Monday using same format as the diagram in 07/179. Following review of this diagram the authors of 07/265 will provide an update on how they propose we should proceed with 07/265 considering that it has already been harmonised with 07/144.

07/013: Mike Hart mentioned that he is proposing to supersede by 07/235, pending the outcome of discussions on 07/235 (see above).

07/090r3: Hang Zhang will send email of latest version to trigger discussion on format of MAP for relay zone. Mike Hart suggested that the discussions begin at a high-level first on whether a new MAP message is required or not for the relay zone. Once consensus is reached, then we can discuss the specifics of the message (i.e. format, IE's supported, etc).

07/162r3: The authors will email the latest version to the group, including some notes of the offline discussions they have had with other people on this contribution. Discussion on the technical merit of the contribution will continue by email.

3. Overview of the status of the open topics the ad-hoc needs to work on

The open topics, based on the review of the contributions listed above was discussed and summarised as:

- Frame structure diagrams:
Waiting updated diagrams from Ken Lao to be sent to email list.
- Relay zone location signalling in the access link MAP message:
Waiting updated contribution from Changyoon & Rakesh to be sent to email list
- MAP message for the relay link (new R-MAP or existing DL/UL-MAP):
Start high-level discussion on approach for relay link MAP message (new or existing)
Then work on details once consensus is reached
- New multiple frame format (see 07/162r3):
Authors to solicit comments and questions on 07/162r3 from the adhoc group to start to form opinion on way forward for 07/162r3.

4. Discussion on new areas

The chair asked if anyone had identified any new areas that need to be covered by the adhoc relating to frame structure. No one responded.

David Comstock questioned that the deadline for new contributions still stood as 6 April. The chair confirmed this and clarified that he would like to encourage potential contributors to highlight problems/issues that might require a new contribution as early as possible, thus giving the opportunity for members to work together as early as possible on providing harmonised contributions into the adhoc and then into the next TG meeting.

5. Action items

The chair reviewed the actions on the contributors, as listed under the notes relating to agenda item 2.

6. Next adhoc meeting planning

No further meetings were arranged at this time. The need for another meeting will be reviewed by the chair based on the email discussions and the number of new contributions received by the 6 April deadline.