**Comment by:**        Nancy   Bravin                **Membership Status:**                    **Date:** 27-Aug-2010

**Comment #  B001**                **Document under Review:  P802.16m/D8**                **Ballot ID:  sb_16m**

**Comment**        **Type** Technical        **Part of Dis** ☒  **Satisfied** ☐        **Page** 856    **Line** 56        **Fig/Table#**        **Subclause** 16.5.1.3.1

To improve the multi-BS MIMO sounding phase calibration scheme for DL/UL mismtach, Please use the phase differetial approach which is proposed to reduce calibration overhead.

**Suggested Remedy**

Adopt contribution C802.16m-10/0985.doc or its latest revision

**GroupResolution**                        **Decision of Group:**   **Principle**

Resolved by comment B187:

Adopt the text proposal in C802.16m-10/1136r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**                **Editor's Actions**        b) none needed

**Comment by:**          Brian  Kiernan                    **Membership Status:**                    **Date:** 1-Sep-2010

**Comment #  B002**                    **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**        **Type** General          **Part of Dis** ☒  **Satisfied** ☐        **Page** 883    **Line** 60          **Fig/Table#**          **Subclause**  16.12

I disagree with the resolution of Comment #A315. While I agree that the references in the contribution were incorrect, nonetheless the contribution should have been incorporated into the draft as a placeholder which could have been updated during the recirc process. It is crucial that PICS information be included in the Standard.

**Suggested Remedy**

Adopt any subsequent updates to IEEE C802.16m-10/0409

**GroupResolution**                              **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

no specific remedy povided

**Group's Notes**

Clause 16.12; General NEW

**Editor's Notes**                    **Editor's Actions**      b) none needed

| **Comment by:** | Junghoon  Jee | **Membership Status:** | **Date:** 6-Sep-2010 |

**Comment #  B003**                     **Document under Review:  P802.16m/D8**                     **Ballot ID:  sb_16m**

**Comment**        **Type** Editorial        **Part of Dis** ☐  **Satisfied** ☐        **Page** 326   **Line** 20        **Fig/Table#**        **Subclause** 16.2.6.5.2.1

Error in naming the message, AAI-L2_XFER.
Not underscore but dash between 'L2' and 'XFER'.

**Suggested Remedy**

s/AAI-L2_XFER/AAA-L2-XFER

**GroupResolution**                          **Decision of Group:**  **Agree**

Replace "AAI-L2_XFER" with "AAA-L2-XFER"

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.6; MAC HO procedures

**Editor's Notes**                     **Editor's Actions**     a) done

**Comment  by:**  Junghoon  Jee

**Membership Status:**

**Date:** 6-Sep-2010

**Comment #  B004**

**Document under Review:  P802.16m/D8**

**Ballot ID:  sb_16m**

**Comment**     **Type** Editorial     **Part of Dis** ☒  **Satisfied** ☐     **Page** 326   **Line** 37     **Fig/Table#**     **Subclause** 16.2.6.5.2.1.1

Do not need capital letter for 'Payload'.

**Suggested Remedy**

s/Payload/payload

**GroupResolution**     **Decision of Group:**  **Agree**

Replace "Payload" with "payload"

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**     a) done

**Comment  by:**        Junghoon  Jee            **Membership Status:**                    **Date:**  6-Sep-2010

**Comment #  B005**              **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**        **Type** Editorial      **Part of Dis** ☒  **Satisfied** ☐      **Page**  326    **Line**  43        **Fig/Table#**          **Subclause**  16.2.6.5.2.1.1

Do not need a capital letter for 'Information'.

**Suggested Remedy**

s/RAN Information/RAN information

**GroupResolution**                **Decision of Group:**   **Agree**

Replace "RAN Information" with "RAN information"

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**            **Editor's Actions**      a) done

**Comment  by:**          Junghoon  Jee          **Membership Status:**          **Date:** 6-Sep-2010

**Comment #  B006**          **Document under Review: P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Editorial     **Part of Dis** ☒ **Satisfied** ☐     **Page** 326  **Line** 47     **Fig/Table#**     **Subclause** 16.2.6.5.2.1.1

Do not need a capital letter for 'Information'.

**Suggested Remedy**

s/RAP Information/RAP information

**GroupResolution**          **Decision of Group:**  **Agree**

Replace "RAP Information" with "RAP information"

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**     a) done

**Comment  by:**        Junghoon  Jee              **Membership Status:**                **Date:** 6-Sep-2010

**Comment #  B007**                **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**      **Type** Technical    **Part of Dis** ☒ **Satisfied** ☐    **Page** 326  **Line** 47      **Fig/Table#**        **Subclause** 16.2.6.5.2.1.1

'BSID' is not a general term to describe the identifiers of heterogeneous L2 entities over 802.16m, 802.11, 3GPP, etc.

**Suggested Remedy**

s/BSID/PoA(Point of Attachment) identifier

**GroupResolution**                **Decision of Group:**   **Principle**

replace "BSID" with "PoA (Point of Attachment) identifier"

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**              **Editor's Actions**      a) done

| **Comment  by:** | Junghoon  Jee | | **Membership Status:** | | **Date:** 7-Sep-2010 |

**Comment #  B008**             **Document under Review:  P802.16m/D8**             **Ballot ID:  sb_16m**

**Comment**      **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page**  172   **Line**  49          **Fig/Table#**          **Subclause**  16.2.3.30

802.21 renamed the "ES/CS MIH Capability Discovery" as "Service Management".

**Suggested Remedy**

Change "ES/CS MIH Capability Discovery" to "Service Management".

**GroupResolution**                    **Decision of Group:**   **Agree**

Change "ES/CS MIH Capability Discovery" to "Service Management".

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; L2 Transfer message

**Editor's Notes**              **Editor's Actions**     a) done

**Comment by:**          Junghoon Jee          **Membership Status:**                    **Date:** 7-Sep-2010

**Comment #  B009**                    **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page** 173   **Line** 22     **Fig/Table#**          **Subclause** 16.2.3.30

802.21 renamed the "ES/CS MIH Capability Discovery" as "Service Management".

**Suggested Remedy**

Change "ES/CS MIH Capability Discovery" to "Service Management".

**GroupResolution**               **Decision of Group:**   **Agree**

Change "ES/CS MIH Capability Discovery" to "Service Management".

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; L2 Transfer message

**Editor's Notes**          **Editor's Actions**     a) done

| **Comment by:** | Yu-Min Chiu | **Membership Status:** | **Date:** 7-Sep-2010 |

| **Comment #** **B010** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**       **Type** Technical       **Part of Dis** ☒ **Satisfied** ☐       **Page** 106   **Line** 27       **Fig/Table#**       **Subclause** 16.2.3.7

I am not satisfied with the resolution to comment #120 in IEEE 802.16-10/0045.
In current D8, to mitigate the interference between Femto ABSs, it is said that "Femto ABS may disable some of its subframes and announce the disabled subframes via AAI_SON-ADV". However, there is no parameter in the AAI_SON-ADV message enabling this function.

**Suggested Remedy**

Adopt the proposed modifications in C802.16m-10/1109 or its latest version.

**GroupResolution**                **Decision of Group:**   **Principle**

Same as resolution of comment #10026
Adopt proposed text in contribution IEEE C802.16m-10/1047r5

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; SON-ADV

**Editor's Notes**                **Editor's Actions**     a) done

The tables from this comment are already covered in comment B10026

| **Comment by:** | Junghoon Jee | **Membership Status:** | | **Date:** 7-Sep-2010 |

| **Comment #  B011** | **Document under Review:  P802.16m/D8** | **Ballot ID:  sb_16m** |

**Comment**       **Type** Technical    **Part of Dis** ☒  **Satisfied** ☐       **Page** 327   **Line** 24       **Fig/Table#**         **Subclause** 16.2652122

The other RAT discovery using scanning procedure is optional not mandatory because it's possible to discover other RAT information using AAI-L2-XFER or AAI-SII-ADV messages.

**Suggested Remedy**

s/shall/may
So the amended sentence would be the following.
"AMS may initiate other RAT discovery using scanning procedure. The AMS may negotiate scanning procedure before scanning commencement."

**GroupResolution**                **Decision of Group:**   **Agree**

"AMS <del>shall</del> <ins>may</ins> initiate other RAT discovery using scanning procedure. The AMS <del>shal</del><ins>may</ins> negotiate scanning procedure before scanning commencement."

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**              **Editor's Actions**     a) done

| Comment by: | Yi-Ting Lin | **Membership Status:** | **Date:** 7-Sep-2010 |

| **Comment #** B012 | | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

| **Comment** | **Type** Technical | **Part of Dis** ☒ **Satisfied** ☐ | **Page** 848 | **Line** 49 | **Fig/Table#** | **Subclause** 16.4.11 |

The ranging purpose indication code is wrong with experiencing "femto interference".

**Suggested Remedy**

Upon inaccessible Femto ABS receiving an AAI-RNG-REQ with the Ranging Purpose Indication code <del>0b0111</del> <ins>0b1100</ins> from AMS, the Femto ABS may perform interference mitigation based on the measurement and legitimate of the AMS.

**GroupResolution**                                    **Decision of Group:** **Principle**

Resolved by the comment #B10092.

[page 319 line19]
The network reentry process at the S-ABS is identical to the network reentry process at any other T-ABS, both for the S-ABS and for the AMS. The ranging purpose indication in AAI-RNG-REQ shall be set to 0b<del>0101 </del> <ins>1000</ins>.

[page 346 line12]
An AMS may perform Location Update process to acquire its preferred carrier for the idle mode support when AMS cannot find the paging carrier. In this case, Ranging Purpose Indication = 0b<del>0001 </del> <ins>0011</ins> in AAI-RNG-REQ message is used for indicating paging carrier update in location update process, and the AMS may include Paging Carrier Update parameter in AAI-RNG-REQ message to inform its preferred paging carrier.

[page 371 line64]
During the network entry, the ABS shall allocate the NS/EP service FID for the emergency service flow through AAI-RNG-RSP upon receiving AAI-RNG-REQ with Ranging Purpose Indication set to code 0b <del>10000 </del> <ins>1101</ins>.

[page 372 line9]
The AMS may request for Emergency Service flow setup during initial ranging process by setting the Ranging Purpose Indication to code 0b<del>0010 </del> <ins>0101</ins> for E911 type services and code 0b<del>1000 </del> <ins>1101</ins> for NS/EP services in the AAI-RNG-REQ message.

[page 467 line3]
When an AMS performs handover to a new ABS while in Active Mode or Sleep Mode, the AMS shall send AAI-RNG-REQ message with Ranging Purpose Indication = 0b<del>0000 </del> <ins>0001</ins> at the T-ABS.

[page 848 line42]

If an AMS is placed into outage by an inaccessible ABS (e.g. the CSG-closed Femto ABS of which it is not a member) and only if the AMS has no connection with neighbor macro ABS, it may indicate this problem to that Femto ABS by sending an AAI-RNG-REQ with the Ranging Purpose Indication code 0b<del>0111 </del> <ins> 1100</ins> based on configured trigger conditions.

Upon inaccessible Femto ABS receiving an AAI-RNG-REQ with the Ranging Purpose Indication code 0b<del>0111 </del> <ins>1100</ins> from AMS, the Femto ABS may perform interference mitigation based on the measurement and legitimate of the AMS.

[page 848 line61]
Upon receiving an AAI-RNG-REQ with the Ranging Purpose Indication code 0b<del>0111 </del> <ins>1100 </ins>, or an interference indication from the overlay Macro ABS, and if there are no AMSs attached to the CSG-Closed Femto ABS and there are no AMSs in network (re)entry process, the CSG-Closed Femto ABS may operate in LDM for a time interval to reduce interference.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.4; Other Femto

**Editor's Notes**          **Editor's Actions**      b) none needed

| **Comment by:** | Junghoon Jee | **Membership Status:** | **Date:** 7-Sep-2010 |

**Comment #  B013**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**    **Type** Editorial    **Part of Dis** ☒ **Satisfied** ☐    **Page** 327    **Line** 37    **Fig/Table#**    **Subclause** 16.2652123

Error in the naming, AAI-L2-XFER

**Suggested Remedy**
s/"AAI-L2-xfer"/"AAI-L2-XFER"

**GroupResolution**          **Decision of Group:**   **Agree**

Replace "AAI-L2-xfer" with "AAI-L2-XFER"

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**      a) done

**Comment  by:**          Junghoon   Jee                **Membership Status:**                    **Date:**  7-Sep-2010

**Comment #  B014**              **Document under Review:  P802.16m/D8**            **Ballot ID:  sb_16m**

**Comment**      **Type**  Technical      **Part of Dis** ☒ **Satisfied** ☐      **Page**  328    **Line**  46      **Fig/Table#**          **Subclause**  16.2652123

Do not need to separate the steps 3 and 6 in terms of delivering the Inter-RAT information from Information Repository to AMS.

**Suggested Remedy**

Merge steps 3 and 6 and amend the texts accordingly.

**GroupResolution**                    **Decision of Group:**    **Disagree**

**Reason for Group's Decision/Resolution**

lack of proposed text

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**                **Editor's Actions**      b) none needed

| **Comment by:** | Junghoon  Jee | **Membership Status:** | **Date:** 7-Sep-2010 |

**Comment #  B015**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☒  **Satisfied** ☐    **Page** 328   **Line** 56    **Fig/Table#**    **Subclause** 16.2652123

The term of "single radio" is not clear.

**Suggested Remedy**

Change "single radio case" to "When AMS performs single-radio operation" and add the definition of "single-radio operation" by referring the IEEE Std 802.21-2008.
FYI. The single-radio operation definition from the IEEE Std 802.21-2008 is the following.
"In this mode, a dual radio device can receive and transmit on only one radio at
a time. This is usually the mode of operation when radio frequencies of the two radios are close to each other
(e.g., in IMT 2000 bands). Since only one radio can be active at a time in these types of devices, the source
radio uses the back-end connection of the source network with the target network to prepare the target
network for handover while maintaining the client side connections. Once the target preparation is complete
the device switches from source radio to target radio. Since all the target preparation has been completed a
priori, the target radio quickly establishes connectivity with the target network and all the connections are
then transferred from source network to target network."

**GroupResolution**          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

incomplete remedy

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**    b) none needed

| Comment by: | Yi-Ting Lin | Membership Status: | Date: 7-Sep-2010 |

**Comment #** **B016**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☒ **Satisfied** ☐   **Page** 848   **Line** 61   **Fig/Table#**   **Subclause** 16.4.11

The Ranging Purpose Indication code is wrong with experiencing "femto interference".

**Suggested Remedy**

Upon receiving an AAI-RNG-REQ with the Ranging Purpose Indication code <del>0b0111</del> <ins>0b1100</ins>, or an interference indication from the overlay Macro ABS, and if there are no AMSs attached to the CSG-Closed Femto ABS and there are no AMSs in network (re)entry process, the CSG-Closed Femto ABS may operate in LDM for a time interval to reduce interference.

**GroupResolution**                    **Decision of Group:**   **Principle**

Resolved by the comment #B10092

[page 319 line19]
The network reentry process at the S-ABS is identical to the network reentry process at any other T-ABS, both for the S-ABS and for the AMS. The ranging purpose indication in AAI-RNG-REQ shall be set to 0b<del>0101 </del> <ins>1000</ins>.

[page 346 line12]
An AMS may perform Location Update process to acquire its preferred carrier for the idle mode support when AMS cannot find the paging carrier. In this case, Ranging Purpose Indication = 0b<del>0001 </del> <ins>0011</ins> in AAI-RNG-REQ message is used for indicating paging carrier update in location update process, and the AMS may include Paging Carrier Update parameter in AAI-RNG-REQ message to inform its preferred paging carrier.

[page 371 line64]
During the network entry, the ABS shall allocate the NS/EP service FID for the emergency service flow through AAI-RNG-RSP upon receiving AAI-RNG-REQ with Ranging Purpose Indication set to code 0b <del>10000 </del> <ins>1101</ins>.

[page 372 line9]
The AMS may request for Emergency Service flow setup during initial ranging process by setting the Ranging Purpose Indication to code 0b<del>0010 </del> <ins>0101</ins> for E911 type services and code 0b<del>1000 </del> <ins>1101</ins> for NS/EP services in the AAI-RNG-REQ message.

[page 467 line3]
When an AMS performs handover to a new ABS while in Active Mode or Sleep Mode, the AMS shall send AAI-RNG-REQ message with Ranging Purpose Indication = 0b<del>0000 </del> <ins>0001</ins> at the T-ABS.

[page 848 line42]

If an AMS is placed into outage by an inaccessible ABS (e.g. the CSG-closed Femto ABS of which it is not a member) and only if the AMS has no connection with neighbor macro ABS, it may indicate this problem to that Femto ABS by sending an AAI-RNG-REQ with the Ranging Purpose Indication code 0b<del>0111 </del> <ins> 1100</ins> based on configured trigger conditions.
Upon inaccessible Femto ABS receiving an AAI-RNG-REQ with the Ranging Purpose Indication code 0b<del>0111 </del> <ins>1100</ins> from AMS, the Femto ABS may perform interference mitigation based on the measurement and legitimate of the AMS.

[page 848 line61]
Upon receiving an AAI-RNG-REQ with the Ranging Purpose Indication code 0b<del>0111 </del> <ins>1100 </ins>, or an interference indication from the overlay Macro ABS, and if there are no AMSs attached to the CSG-Closed Femto ABS and there are no AMSs in network (re)entry process, the CSG-Closed Femto ABS may operate in LDM for a time interval to reduce interference.


**Reason for Group's Decision/Resolution**


**Group's Notes**
Clause 16.4; Other Femto

**Editor's Notes**          **Editor's Actions**     b) none needed

| **Comment  by:** | Junghoon   Jee | **Membership Status:** | **Date:** 7-Sep-2010 |

| **Comment #  B017** | **Document under Review:  P802.16m/D8** | **Ballot ID:  sb_16m** |

**Comment**     **Type** Technical     **Part of Dis** ☒ **Satisfied** ☐     **Page** 328   **Line** 60     **Fig/Table#**     **Subclause** 16.2652123

This step, 10) assumes that AAI BS is the decision entity for Inter-RAT HO based on the phrase of "AAI ABS for evaluation".

**Suggested Remedy**

Change the step 10) like the following.
10) The AMS conducts measurements and report the results.

**GroupResolution**                    **Decision of Group:**   **Agree**

10) The <del>device</del><ins>AMS</ins> conducts measurements and <del>these</del> reports <del>are sent by the AMS to the AAI ABS for evaluation</del><ins>the results to the ABS</ins>.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**                    **Editor's Actions**     a) done

| Comment by: | Junghoon Jee | **Membership Status:** | **Date:** 7-Sep-2010 |
|---|---|---|---|

**Comment #** **B018**         **Document under Review:** **P802.16m/D8**         **Ballot ID:** **sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☒ **Satisfied** ☐      **Page** 328   **Line** 59      **Fig/Table#**      **Subclause** 16.2652123

This sentence assumes that other radios were turned off previously with regard to single-radio operation. It's not necessary true because multiple radio can receive simultaneously even in the case of single-radio operation. The main feature of the single-radio operation is that only one radio can transmit at a given time not turing down the other radios.

**Suggested Remedy**

Replace "turns on the other radios" in a more appropriate wordings or delete that part in the sentence.

**GroupResolution**                **Decision of Group:**   **Principle**

Modify texst in page 328 line 59 as following:
The device <del>turns on the other radios and </del>configures measurement reporting for target RATs.

[editor] also in Figure 414, box 9 should read "Configure measurement reporting for target RATs"

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.6; MAC HO procedures

**Editor's Notes**                **Editor's Actions**   a) done

**Comment  by:**          Junghoon  Jee                    **Membership Status:**                    **Date:** 7-Sep-2010

**Comment #  B019**                    **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ⊠  **Satisfied** ☐          **Page** 328    **Line** 63          **Fig/Table#**          **Subclause** 16.2652123

This step 11) does not correspond with the step 11 of Figure 414. Also, The description of step 12) is quite similar with the step 11)

**Suggested Remedy**

Delete step 11) in the line 63 of Page 328.

**GroupResolution**                    **Decision of Group:**    **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 0, 3, 0
original text is correct

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**                    **Editor's Actions**        b) none needed

| **Comment by:** | Junghoon  Jee | **Membership Status:** | **Date:** 7-Sep-2010 |

**Comment #  B020**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 328      **Line** 56      **Fig/Table#**      **Subclause** 16.2652123

The description about the usage and relationship with AAI-SCN-REQ, AAI-SCN-RSP and AAI-SCN-REP are missing.

**Suggested Remedy**

Provide the detailed description about the relationship with 802.16m scanning messages.

**GroupResolution**          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

no proposed text for the group to consider

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**      b) none needed

**Comment by:**            Junghoon  Jee                     **Membership Status:**                    **Date:** 7-Sep-2010

**Comment #  B021**                     **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐        **Page** 329    **Line** 36          **Fig/Table#**          **Subclause** 16.2.6.5.2.2.2

The word of 'system's is unclear and needs to clarify which facility is used to inform the gab-related capabilities.

**Suggested Remedy**

1. s/system/ABS
2. Add the description how the AMS informs the ABS of the gab-related information. (e.g, through specific MAC control messages or something like that...)

**GroupResolution**                      **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

proposed remedy is incomplete

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**                    **Editor's Actions**      b) none needed

| **Comment  by:** | Junghoon  Jee | **Membership Status:** | **Date:** 7-Sep-2010 |

**Comment #  B022**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**  **Type** Technical  **Part of Dis** ☒  **Satisfied** ☐  **Page** 330  **Line** 27  **Fig/Table#**  **Subclause** 16.2.6.5.2.3.2

The sentence, "Only one RAT is active at any time during handover" is not clear.

**Suggested Remedy**

s/RAT/"radio interface"

**GroupResolution**          **Decision of Group:**  **Principle**

s/RAT/"radio access technology"

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**      a) done

**Comment by:**          Junghoon  Jee          **Membership Status:**                    **Date:** 7-Sep-2010

**Comment #  B023**                    **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**          **Type** Editorial      **Part of Dis** ☒  **Satisfied** ☐        **Page** 330    **Line** 32          **Fig/Table#**              **Subclause**  16.2.6.5.2.3.2

Error in the naming, 'AAI-L2-XFER'

**Suggested Remedy**

s/AAI-L2-Xfer/AAI-L2-XFER

**GroupResolution**                    **Decision of Group:**  **Agree**

Replace "AAI-L2-Xfer" with "AAI-L2-XFER"

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**      a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Junghoon Jee | **Membership Status:** | **Date:** 7-Sep-2010 |
| **Comment #** B024 | **Document under Review:** P802.16m/D8 | | **Ballot ID:** sb_16m |

**Comment**  **Type** Technical  **Part of Dis** ☒ **Satisfied** ☐  **Page** 330  **Line** 53  **Fig/Table#**  **Subclause** 16.2652321

SABS, an L2 PoA is not entity to be directly involved for Inter-RAT HO signaling.

**Suggested Remedy**

Change the description like the following.
Once a decision is made to perform Inter-RAT handover, AMS performs handover toward the decided target access network. After completing the handover toward target access network, AMS may turn off the previous serving radio.

**GroupResolution**  **Decision of Group:**  **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 0, 2, 0
ABS shall control any HO, to some extent. The text suggest MS can do whatever it wants at whatever time.

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**  **Editor's Actions**  b) none needed

**Comment  by:**          Yi-Ting  Lin                **Membership Status:**               **Date:** 7-Sep-2010

**Comment #  B025**                    **Document under Review:  P802.16m/D8**                **Ballot ID:  sb_16m**

**Comment**        **Type** Editorial      **Part of Dis** ☒  **Satisfied** ☐      **Page** 849    **Line** 5          **Fig/Table#**          **Subclause** 16.4.11

The section of FFR operation is wrong.

**Suggested Remedy**

The operation of resource reservation shall not contradict with the FFR operation defined in <del>20.1</del> <ins>16.2.21</ins>.

**GroupResolution**                    **Decision of Group:** **Agree**

The operation of resource reservation shall not contradict with the FFR operation defined in <del>20.1</del> <ins>16.2.21</ins>.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.4; Other Femto

**Editor's Notes**              **Editor's Actions**     a) done

Needs cross-reference

| **Comment by:** | Avraham  Freedman | **Membership Status:** | **Date:** 7-Sep-2010 |

**Comment #  B026**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Editorial     **Part of Dis** ☒ **Satisfied** ☐     **Page** 571   **Line** 36     **Fig/Table#**     **Subclause** 16.3.5.2.2.2

The acronym "HF" appears first in line 31. It would be beneficial to introduce it here.

**Suggested Remedy**

Change "HARQ feedback" to "HARQ feedback <ins> (HF) <\ins>

**GroupResolution**                    **Decision of Group:**   **Agree**

Change "HARQ feedback" to "HARQ feedback <ins> (HF) <\ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**          **Editor's Actions**     a) done

| **Comment  by:** | Avraham  Freedman | **Membership Status:** | **Date:** 7-Sep-2010 |

| **Comment #  B027** | **Document under Review:  P802.16m/D8** | **Ballot ID:  sb_16m** |

**Comment**        **Type** Technical     **Part of Dis** ☒ **Satisfied** ☐     **Page** 2     **Line** 17     **Fig/Table#**     **Subclause** 1.4

I am not fully satisfied with the resolution of comment A191 in IEEE 802.16-10/0045r3. The term ASN appears in the text without any explanation. Adding the expalantion of the acronym is in my opinion, not enough.

**Suggested Remedy**

Add the following text (based on the SDD) to section 1.4: "Architecturally, the base stations and their backbone connections form the Access Service Network (ASN), defined as a complete set of network functions needed to provide radio access to the mobile stations. The ASN is outside the scope of this standard.

**GroupResolution**                    **Decision of Group:   Principle**

Add the following text (based on the SDD) to end of section 1.4.4.2:
"Architecturally, the base stations and their backbone connections form the Access Service Network (ASN), defined as a complete set of network functions needed to provide radio access to the mobile stations. The ASN is outside the scope of this standard.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 1.4; General

**Editor's Notes**                **Editor's Actions**     a) done

**Comment by:**          Avraham  Freedman          **Membership Status:**          **Date:** 7-Sep-2010

**Comment #  B028**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒ **Satisfied** ☐     **Page** 860     **Line** 6     **Fig/Table#**     **Subclause** 16.6.1

I am not fully satisfied with the resolution of comment A187 in IEEE 802.16-10/0045r3. I may have misunderstood the concept of compliance with the original comment requiring that an AMS shall be able to roam to any type of network (with or without relays). Thus, to clarify, I suggest to add the sentence below. If such a sentene cannot be introduced, relays, as described here, will never be implemented.

**Suggested Remedy**

Add the following sentence: AMS operation is identical whether serviced by an ABS or an ARS.

**GroupResolution**          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The AMS operation is not exactly identical because in TTR mode, ARS has the different frame structure with ABS. AMS can know BS type and operates depending on the BS type.

**Group's Notes**

Clause 16.6; Other Relay

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment  by:**　　　Avraham  Freedman　　　　　　**Membership Status:**　　　　　　**Date:** 7-Sep-2010

**Comment #  B029**　　　　　　**Document under Review:  P802.16m/D8**　　　　**Ballot ID:  sb_16m**

**Comment**　　　**Type** Editorial　　　**Part of Dis** ☒　**Satisfied** ☐　　　**Page**  468　　**Line**  1　　　　**Fig/Table#**　　　**Subclause**  16.3

The specification is certainly not for the reference (R1) system

**Suggested Remedy**

Delete: <del>WirelessMAN OFDMA R1 Reference<\del>

**GroupResolution**　　　　　　　**Decision of Group:**　**Agree**

Delete: <del>WirelessMAN OFDMA R1 Reference<\del>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3; PHY General

**Editor's Notes**　　　　　**Editor's Actions**　　a) done

**Comment by:** Avraham Freedman  **Membership Status:**  **Date:** 7-Sep-2010

**Comment #** **B030**  **Document under Review:** **P802.16m/D8**  **Ballot ID:** **sb_16m**

**Comment**  **Type** Editorial  **Part of Dis** ☐  **Satisfied** ☐  **Page** 333  **Line** 42  **Fig/Table#**  **Subclause** 16.2.8.1

Sugested editorial change

**Suggested Remedy**

the ABS may also configure<del>d<\del> <ins>the <\ins>DL only part of an FDD fully configured carrier to be paired and supported by the UL feedback channels on the primary carrier of the AMS.

**GroupResolution**  **Decision of Group:** **Agree**

the ABS may also configure<del>d<\del> <ins>the <\ins>DL only part of an FDD fully configured carrier to be paired and supported by the UL feedback channels on the primary carrier of the AMS.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**  **Editor's Actions**  a) done

| | | | |
|---|---|---|---|
| **Comment by:** | I-Kang Fu | **Membership Status:** | **Date:** 7-Sep-2010 |

**Comment #**  **B031**        **Document under Review:** **P802.16m/D8**        **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 83    **Line** 14    **Fig/Table#**    **Subclause** 16.2.3.1

Table Reformatting and Cleanup on AAI-RNG-REQ

**Suggested Remedy**

Adopt contribution C802.16m-10/1111 or its latest revision

**GroupResolution**        **Decision of Group:**  **Principle**

Adopt contribution C802.16m-10/1111r8

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; RNG-REQ

**Editor's Notes**        **Editor's Actions**    a) done

**Comment  by:**          I-Kang  Fu                    **Membership Status:**                    **Date:** 7-Sep-2010

**Comment #  B032**                    **Document under Review: P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 88      **Line** 27      **Fig/Table#**          **Subclause** 16.2.3.2

Table Reformatting and Cleanup on AAI-RNG-RSP

**Suggested Remedy**

Adopt contribution C802.16m-10/1112 or its latest revision

**GroupResolution**                    **Decision of Group:**   **Principle**

Adopt contribution C802.16m-10/1112r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; RNG-RSP

**Editor's Notes**                    **Editor's Actions**      a) done

**Comment by:**            I-Kang  Fu            **Membership Status:**            **Date:** 7-Sep-2010

**Comment #  B033**            **Document under Review:  P802.16m/D8**            **Ballot ID:  sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 95      **Line** 18      **Fig/Table#**      **Subclause** 16.2.3.3

Table Reformatting and Cleanup on AAI-RNG-ACK and AAI-RNG-CFM

**Suggested Remedy**

Adopt contribution C802.16m-10/1113 or its latest revision

**GroupResolution**            **Decision of Group:**  **Principle**

Adopt contribution C802.16m-10/1113r

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; RNG-ACK

**Editor's Notes**            **Editor's Actions**      a) done

**Comment  by:**                I-Kang  Fu                           **Membership Status:**                              **Date:** 7-Sep-2010

**Comment #  B034**                              **Document under Review:**  **P802.16m/D8**                    **Ballot ID:**  **sb_16m**

**Comment**        **Type** Technical        **Part of Dis** ☐   **Satisfied** ☐        **Page**  100        **Line**  4                **Fig/Table#**                    **Subclause**  16.2.3.5

Table Reformatting and Cleanup on AAI-SBC-REQ and AAI-SBC-RSP

**Suggested Remedy**

Adopt contribution C802.16m-10/1114 or its latest revision

**GroupResolution**                              **Decision of Group:**   **Principle**

Adopt contribution C802.16m-10/1114r5

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; SBC-REQ

**Editor's Notes**                    **Editor's Actions**        a) done

| **Comment  by:** | I-Kang  Fu | **Membership Status:** | **Date:** 7-Sep-2010 |

| **Comment #** **B035** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 107     **Line** 2     **Fig/Table#**     **Subclause** 16.2.3.8

Table Reformatting and Cleanup on AAI-REG-REQ and AAI-REG-RSP

**Suggested Remedy**

Adopt contribution C802.16m-10/1115 or its latest revision

**GroupResolution**                    **Decision of Group:**   **Principle**

Adopt contribution C802.16m-10/1115r3

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; REG-REQ

**Editor's Notes**                    **Editor's Actions**     a) done

**Comment  by:**                    I-Kang  Fu                    **Membership Status:**                    **Date:** 7-Sep-2010

**Comment #  B036**                    **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☐  **Satisfied** ☐          **Page**  118          **Line**  4          **Fig/Table#**          **Subclause**  16.2.3.9

Table Reformatting and Cleanup on AAI-HO-IND, AAI-HO-REQ and AAI-HO-CMD

**Suggested Remedy**

Adopt contribution C802.16m-10/1116 or its latest revision

**GroupResolution**                    **Decision of Group:**    **Principle**

Adopt contribution C802.16m-10/1116r2

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; HO-IND; Handover

**Editor's Notes**                    **Editor's Actions**    a) done

| **Comment  by:** | | I-Kang  Fu | **Membership Status:** | | **Date:** 7-Sep-2010 |

| **Comment #  B037** | | **Document under Review:  P802.16m/D8** | | **Ballot ID:  sb_16m** |

**Comment**   **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 126   **Line** 57    **Fig/Table#**    **Subclause** 16.2.3.13

Table Reformatting and Cleanup on AAI-NBR-ADV

**Suggested Remedy**

Adopt contribution C802.16m-10/1117 or its latest revision

**GroupResolution**              **Decision of Group:**   **Principle**

Adopt contribution C802.16m-10/1117r2

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; NBR-ADV

**Editor's Notes**              **Editor's Actions**     a) done

**Comment  by:**　　　　I-Kang  Fu　　　　　　**Membership Status:**　　　　　**Date:** 7-Sep-2010

**Comment #  B038**　　　　　**Document under Review:  P802.16m/D8**　　　　**Ballot ID:  sb_16m**

**Comment**　　**Type** Technical　　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 132　**Line** 50　　**Fig/Table#**　　**Subclause** 16.2.3.14

Table Reformatting and Cleanup on AAI-SCN-REQ, AAI-SCN-RSP and AAI-SCN-REP

**Suggested Remedy**

Adopt contribution C802.16m-10/1118 or its latest revision

**GroupResolution**　　　　　　　　**Decision of Group:**　　**Principle**

Adopt contribution C802.16m-10/1118r3

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; SCN-REQ

**Editor's Notes**　　　　　　**Editor's Actions**　　　a) done

**Comment  by:**            I-Kang  Fu                **Membership Status:**                    **Date:** 7-Sep-2010

**Comment #  B039**                    **Document under Review:  P802.16m/D8**            **Ballot ID:  sb_16m**

**Comment**        **Type** Technical        **Part of Dis** ☐ **Satisfied** ☐        **Page** 174    **Line** 10        **Fig/Table#**        **Subclause** 16.2.3.31

Table Reformatting and Cleanup on AAI-SCD Message

**Suggested Remedy**

Adopt contribution C802.16m-10/1119 or its latest revision

**GroupResolution**                    **Decision of Group:**    **Principle**

Adopt contribution C802.16m-10/1119r3

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; SCD

**Editor's Notes**                    **Editor's Actions**        a) done

**Comment  by:**          I-Kang  Fu          **Membership Status:**                    **Date:** 7-Sep-2010

**Comment #  B040**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☐ **Satisfied** ☐          **Page** 205          **Line** 12          **Fig/Table#**          **Subclause** 16.2.3.47.1

Table Reformatting and Cleanup on AAI-DSA-REQ/RSP/ACK

**Suggested Remedy**

Adopt contribution C802.16m-10/1120 or its latest revision

**GroupResolution**          **Decision of Group:**  **Principle**

Adopt contribution C802.16m-10/1120r2

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; DSA-REQ

**Editor's Notes**          **Editor's Actions**    a) done

| **Comment by:** | I-Kang Fu | **Membership Status:** | **Date:** 7-Sep-2010 |

**Comment #** **B041**　　　　　　　　　**Document under Review:** **P802.16m/D8**　　　　　**Ballot ID:** **sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐ **Satisfied** ☐　　**Page** 221　　**Line** 12　　**Fig/Table#**　　**Subclause** 16.2.3.47.4

Table Reformatting and Cleanup on AAI-DSC-REQ/RSP/ACK

**Suggested Remedy**

Adopt contribution C802.16m-10/1121 or its latest revision

**GroupResolution**　　　　　　　　　**Decision of Group:**　**Principle**

Adopt contribution C802.16m-10/1121r5

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; DSC-REQ

**Editor's Notes**　　　　　　**Editor's Actions**　　a) done

**Comment  by:**              I-Kang  Fu                    **Membership Status:**                    **Date:** 7-Sep-2010

**Comment #  B042**                          **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☐ **Satisfied** ☐      **Page** 463    **Line** 4            **Fig/Table#**              **Subclause** 16.2.25

Section 16.2.25 Short Message Service needs some clean up.

**Suggested Remedy**

Adopt contribution C802.16m-10/1122 or its latest revision

**GroupResolution**                        **Decision of Group:**    **Disagree**

**Reason for Group's Decision/Resolution**

Proposed remedy does not clean up short message service; it attempts to reformat unrelated MAC messages.

**Group's Notes**

Clause 16.2.25; MAC Short Message Service

**Editor's Notes**                    **Editor's Actions**      b) none needed

| **Comment by:** | I-Kang Fu | **Membership Status:** | **Date:** 7-Sep-2010 |
| --- | --- | --- | --- |

**Comment #** **B043**　　　　　**Document under Review:** **P802.16m/D8**　　　　**Ballot ID:** **sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐ **Satisfied** ☐　　**Page** 793　**Line** 23　　**Fig/Table#**　　**Subclause** 16.3.8.4.4

Ambiguous description

**Suggested Remedy**

<del>When an AMS transmits RNG-REQ message after initial ranging process, the AMS shall send the value of OffsetInitial to its S-ABS through AAI-RNG-REQ.</del> <add>OffsetInitial shall be included in the AAI-RNG-REQ message to be sent to the serving ABS right after initial ranging process. </add>

**GroupResolution**　　　　　　　　**Decision of Group:** **Agree**

<del>When an AMS transmits RNG-REQ message after initial ranging process, the AMS shall send the value of OffsetInitial to its S-ABS through AAI-RNG-REQ.</del> <add>OffsetInitial shall be included in the AAI-RNG-REQ message to be sent to the serving ABS right after initial ranging process. </add>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.8; PHY Uplink control channel

**Editor's Notes**　　　　　　**Editor's Actions**　　a) done

**Comment  by:**　　　　Nader  Zein　　　　　　　　**Membership Status:**　　　　　**Date:** 7-Sep-2010

**Comment #  B044**　　　　　　　**Document under Review:  P802.16m/D8**　　　　**Ballot ID:  sb_16m**

**Comment**　　　**Type** Technical　　**Part of Dis** ☒　**Satisfied** ☐　　**Page** 600　　**Line**　　　**Fig/Table#**　　　**Subclause** 16.3.5.5.2.4.1

In the current IEEE802.16m draft, support for 8 stream MU-MIMO transmission targets only an ABS with 8 TX antennas since the much more typical case of an ABS with 4 TX will not co-schedule more than 4 streams in the DL. Since it is suspected that the deployment of 4 TX ABS would be the primary target for most companies, this enhancement of 8 streams MU-MIMO may not apply is most cases. On the other hand, with more flexible decoding of the DL basic assignment MAP IE, more support for MLD can be exploited by ABSs with both 4 TX and 8 TX antennas

**Suggested Remedy**

Please accept the Text proposed in contribution C802.16-10_1110 or in its latest revision.

**GroupResolution**　　　　　　　　**Decision of Group:**　**Disagree**

**Reason for Group's Decision/Resolution**

Vote:
In favour: 20
Opposed: 10

Reason: The proposal is forcing AMS implementation to have much more complexity (compared to D8) in order to be MLD-ready for more cases. However there is no justification for need of the proposal.

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**　　　　　　**Editor's Actions**　　　b) none needed

| **Comment by:** | Hassan Al-Kanani | **Membership Status:** | **Date:** 7-Sep-2010 |

| **Comment #** **B045** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**   **Type** Technical   **Part of Dis** ☒ **Satisfied** ☐   **Page** 600   **Line**   **Fig/Table#**   **Subclause** 16.3.5.5.2.4.1

Support for 8 stream MU-MIMO transmission, in the current draft of IEE802.16m standard, assumes only an ABS with 8 TX antennas since a typical case of an ABS with 4 TX will not co-schedule more than 4 streams in the DL. As it is currently anticipated that the deployment of 4 TX ABS would be the primary target for most companies, this enhancement of 8 streams MU-MIMO may not apply in most cases. However with more flexible decoding of the DL basic assignment MAP IE, more support for MLD can be utilized by ABSs with both 4 TX and 8 TX antennas.

**Suggested Remedy**

Please adopt the Text proposed in contribution C802.16m-10/1110 or in its latest revision.

**GroupResolution**                      **Decision of Group:** **Disagree**

**Reason for Group's Decision/Resolution**

Vote (duplicate of B045):
In favour: 20
Opposed: 10

Reason: The proposal is forcing AMS implementation to have much more complexity (compared to D8) in order to be MLD-ready for more cases. However there is no justification for need of the proposal.

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**              **Editor's Actions**     b) none needed

| **Comment  by:** | Young Hoon   Kwon | **Membership Status:** | **Date:** 7-Sep-2010 |

**Comment #  B046**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page** 16     **Line** 42     **Fig/Table#**     **Subclause** 5.2.5.1

The reference section index is wrong.

**Suggested Remedy**

by setting bit 7 of Request/Transmission Policy (see <del>11.13.12<del><ins>11.13.11</ins>) to 0.

**GroupResolution**                    **Decision of Group:**   **Agree**

by setting bit 7 of Request/Transmission Policy (see <del>11.13.12<del><ins>11.13.11</ins>) to 0.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 5; MAC CS

**Editor's Notes**          **Editor's Actions**     a) done

**Comment by:**       Zhigang  Rong        **Membership Status:**                **Date:** 7-Sep-2010

**Comment #  B047**                    **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**        **Type** General     **Part of Dis** ☒  **Satisfied** ☐     **Page** 322    **Line** 2        **Fig/Table#**         **Subclause** 16.2.6.3.3

EBB is too complicated and with very limited gain. It is not justifiable for implementation.

**Suggested Remedy**

Remove EBB from the standard specification

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Feature is complex, and specific instructions for removal are required.

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**            **Editor's Actions**     b) none needed

**Comment  by:**          Ronald   Mao                    **Membership Status:**                    **Date:**  7-Sep-2010

**Comment #  B048**                    **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**        **Type** General      **Part of Dis** ☒  **Satisfied** ☐      **Page** 231   **Line** 57          **Fig/Table#**          **Subclause** 16.2.3.48

The message can just add one FID to a group. It needs to be improved

**Suggested Remedy**

adopt the proposal in the contribution C802.16m-10/1079.doc or its latest revision.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The document that is being referred to, is not present.

**Group's Notes**

Clause 16.2.3; MAC Control Messages; GRP-CFG

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment  by:**          Yanhong  Wang                    **Membership Status:**                    **Date:** 7-Sep-2010

**Comment #  B049**                    **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☐ **Satisfied** ☐          **Page** 603     **Line** 40          **Fig/Table#**          **Subclause** 16.3.5.5.2.4.1

Power saving is a very important feature in future wireless systems, where there will be large numbers of different types of terminal devices. Currently, the 16m system uses a sleep mechanism to achieve power savings in the terminal, but the disadvantage is that it needs pre-configuration and must follow a strict set of sleep cycles and listening cycles, which makes it inflexible for ABS to scheduling the AMS and the traffic.

**Suggested Remedy**

Adopt proposal in the contribution #1097, which will be submitted to 16m St. Petersburg meeting.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote:
In favour: 0
Opposed: 2

It is very difficult for an ABS scheduler to exactly predict future allocation in the next N frames for an active AMS. Moreover, this is not the function of PHY, but MAC.

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment by:**　　　Carmela　Cozzo　　　　　　　**Membership Status:**　　　　　　　**Date:** 7-Sep-2010

**Comment #  B050**　　　　　　　**Document under Review:**  **P802.16m/D8**　　　**Ballot ID:  sb_16m**

**Comment**　　**Type** General　　**Part of Dis** ☒　**Satisfied** ☐　　**Page** 322　**Line** 2　　　**Fig/Table#**　　　**Subclause** 16.2.6.3.3

EBB is too complex and with very little gain. It has no value to input it into product.

**Suggested Remedy**

remove EBB from the standard specification

**GroupResolution**　　　　　　　　　**Decision of Group:**　**Disagree**

**Reason for Group's Decision/Resolution**

Feature is complex, and specific instructions for removal are required.

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**　　　　　　**Editor's Actions**　　b) none needed

**Comment  by:**          Richard  Townsend          **Membership Status:**          **Date:** 7-Sep-2010

**Comment #  B051**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☒  **Satisfied** ☐          **Page** 853          **Line** 48          **Fig/Table#**          **Subclause** 16.5.1.1

Specify how the set of ABSs is defined.

**Suggested Remedy**

possibly list of BSIDs?

**GroupResolution**          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The set of ABSs is defined based on adjAbsBitmapMultiBSMIMO. Details are specified in section 16.5.1.4. And the AAI_MULTI_BS_MIMO-RSP contains this parameter and reference.

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment by:**            Limei  Wang            **Membership Status:**            **Date:** 7-Sep-2010

**Comment #  B052**            **Document under Review:  P802.16m/D8**            **Ballot ID:  sb_16m**

**Comment**            **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page** 855    **Line** 15       **Fig/Table#**            **Subclause** 16.5.1.2

definition of 'upon receiving' needs to be clarified ie timing of multi-MS response needs to be defined.

**Suggested Remedy**

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

There is no multi-MS response. This is vendor/implementation specific when ABS communicates with other ABSs after it receives feedback from multiple MSs.

**Group's Notes**
Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**            **Editor's Actions**      b) none needed

| Comment by: | Phillip Barber | Membership Status: | Date: 7-Sep-2010 |

| Comment # **B053** | Document under Review: **P802.16m/D8** | Ballot ID: **sb_16m** |

| Comment | Type Technical | Part of Dis ☒ Satisfied ☐ | Page 54 | Line 49 | Fig/Table# | Subclause 16.2.1.2.1.1 |

There is a lack of necessary precision to the determination of the expected behavior when, during Initial Network Entry, the AMS and ABS transition from use of the TSTID to the STID.

Specifically, the language in the standard is sufficiently vague that a state synchronization problem may arise during the TSTID-to-STID transition such that service is disrupted, possibly failed. This is an interoperable problem related to underspecification.

Specifically, the language in 16.2.1.2.1.1 Temporary Station Identifier (TSTID) says, 'The ABS shall release the TSTID when it identifies that the AMS has successfully completed the registration procedure.'

This is a bit of a problem because we do not provide a determinstic, well defined event in 16.2.15 Initial Network Entry on when the ABS determines that the AMS registration procedure is 'completed'. This is very important: the test is an ABS determination of the state of the AMS. What is the concrete indicator, or set of indicators that the ABS shall use to make such AMS state determination? And the outcome of the test is the ABS discards the TSTID, making it no longer available for addressing the AMS. Without the TSTID there can be no way to recover the state synch fault.

In the absense of concrete method, the ABS may determine that the AMS has transitioned and that STID is now valid, and discard the TSTID, while the AMS may actually not have successfully received and processed the REG-RSP containing the STID, thus not be able to recognize nor employ STID.

For instance, in response to an AMS REG-REQ the ABS sends a first REG-RSP including the STID, but the AMS fails to successfully receive the transmission. Then the ABS sends some sort of message or makes a UL allocation for the AMS, using the STID, within the AMS REG-REQ retransmission window (remember that, after a delay timer to wait for a response, the AMS will retransmit REG-REQ some number of times to prompt transmission/re-transmission of the REG-RSP). In such an example the AMS could not process any message directed to the STID or UL allocation tagged with the STID because the AMS has yet to receive the STID.

With the current vague language eThe ABS shall release the TSTID when it identifies that the AMS has successfully completed the registration proceduref it is not clear to me that the example I provide is not possible, and the example I provide MUST be made impossible or we are bound to have MS identity synch problems during INE with incautiously designed implementations.

To be clear, we have tools to avoid this problem, tools like e16.2.2.2.5 MAC Control ACK Extended Header (MAEH)f and e16.2.3.36 AAI-MSG-ACKf. But those tools like MSG-ACK are optional, so there is no guarantee they will be applied to overcome this problem.

**Suggested Remedy**

In P802.16m/D8, page 54, line 43, modify the text as:

16.2.1.2.1.1 Temporary Station Identifier (TSTID)

A TSTID is used temporarily to protect the mapping between the STID, which is used after network entry, and the AMS MAC Address. TSTID is allocated from the STID number space. The ABS assigns and transfers a TSTID to the AMS by AAI]RNG]RSP during initial ranging procedure. During registration procedure the ABS assigns and transfers an STID to the AMS by encrypted AAI]REG]RSP. The ABS shall release the TSTID when it identifies that the AMS has successfully completed the registration procedure<ins> by ABS successful receipt of AMS explicit, authenticated post-AAI-REG-RSP messaging (i.e. MAEH, AAI-MSG-ACK, or other authenticated UL MAC control message)</ins>.

**GroupResolution**  **Decision of Group:**  **Principle**

accept C802.16-10_1261

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.1; MAC Addressing

**Editor's Notes**  **Editor's Actions**  a) done

**2010/10/06**  **IEEE 802.16-10/0047r4**

| | | | | |
|---|---|---|---|---|
| **Comment  by:** | Phillip  Barber | **Membership Status:** | | **Date:**  7-Sep-2010 |
| **Comment #**  **B054** | | **Document under Review:**  **P802.16m/D8** | | **Ballot ID:**  **sb_16m** |

**Comment**  **Type** Technical   **Part of Dis** ☒  **Satisfied** ☐   **Page** 17   **Line** 40   **Fig/Table#**   **Subclause** 5.2.6

In Table 2a
The specification indicates:
On the transmitter side, once the protocol type of an incoming packet is determined, the appropriate classification rules are applied to the packet and the correct service flow is identified.
What classification rules? 5.2.6 is a new CS type. We must identify the exact clause 16 specific information elements that are relevant to each of the protocol types in table 2a, especially for classification purposes. We do not get to assume that the information elements, including classification rules used for IP CS automatically/implicitly apply for Multiprotocol CS with data type IP. It must be explicit. And we don't even have a section with information elements, including classification rules for Ethernet.

**Suggested Remedy**

identify the exact clause 16 specific information elements that are relevant to each of the protocol types in table 2a

**GroupResolution**  **Decision of Group:**  **Principle**

Resolved by Comment #194:
Adopt contribution C802.16m-10/1229r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 5; MAC CS

**Editor's Notes**  **Editor's Actions**  b) none needed

**Comment  by:**           Phillip   Barber            **Membership Status:**              **Date:** 7-Sep-2010

**Comment #  B055**                      **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 16      **Line** 61        **Fig/Table#**        **Subclause** 5.2.6

what about nested classification? I thought that was one of the motivators for the introduction of this new, multiprotocol CS. IP-in-IP.
Classification on IP header elements for both the inner and outer header. IPoE?
This new CS feature is not useful if it is supposed to be just for version agnostic IP, and Ethernet (as currently defined). We already
have fully defined CSs that we can reuse for those.
This feature is only useful if it is going to be used for something like IP-in-IP with classification on portions of both the inner and outer IP
headers, for a use case like multi-host AMS.

**Suggested Remedy**

Define IP-in-IP and IPoE as idenfied protocols for Multiprotocol CS.
Identify and enumerate clause 16 information elements and rules specific to identified protocol-in-protocol classification for Multiprotocol
CS

**GroupResolution**                        **Decision of Group:**   **Principle**

Resolved by Comment #194:
Adopt contribution C802.16m-10/1229r1

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 5; MAC CS

**Editor's Notes**                    **Editor's Actions**      b) none needed

| Comment by: | Phillip Barber | Membership Status: | | Date: 7-Sep-2010 |
|---|---|---|---|---|

| Comment # **B056** | Document under Review: **P802.16m/D8** | Ballot ID: **sb_16m** |
|---|---|---|

**Comment**  **Type** Technical   **Part of Dis** ☒  **Satisfied** ☐   **Page** 54   **Line** 6   **Fig/Table#**   **Subclause** 16

While the DRAFT has improved, the document continues to lack necessary context language and feature clarity to all features.
For instance, is this a Point-multi-point (PMP) solution? Where is the language similar to IEEE 802.16-2009 6.1 and 6.3.1 that would define the scope of the solution, create the solution methodology, connection oriented air interface, connection definition is clarified and context established between connection identifiers and the network reference model and protocol stack?
Similar problems with QoS. Where is the unifying structure of 6.3.14? What is the relationship matrix between connections, service flows, etc....

**Suggested Remedy**

Add missing context language and feature clarity to all features.
Introduce context language, similar to that contained in subclause 6.1 but specific to PMP operation for AAI services and connection definitions in clause 16.
Introduce context language, similar to that contained in subclause 6.3 but specific to the connection definitions in clause 16.
Introduce context langauge and , similar to that conatined in subclause 6.3.14 (including theory of operation, identification of service flows as MAC flow construct, object models, etc...), but specific to AAI definitions.

**GroupResolution**          **Decision of Group:**   **Principle**

Resolved by Comment #B149:
 adopt a contribution IEEE 802.16m-10/1173

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16; General AAI

**Editor's Notes**          **Editor's Actions**    b) none needed

| | | | |
|---|---|---|---|
| **Comment by:** | Phillip Barber | **Membership Status:** | **Date:** 7-Sep-2010 |

**Comment #** B057          **Document under Review:** P802.16m/D8          **Ballot ID:** sb_16m

**Comment**   **Type** Technical   **Part of Dis** ☒ **Satisfied** ☐   **Page** 55   **Line** 30   **Fig/Table#**   **Subclause** 16.2.1.2.3

The original motivation for using DID appears either no longer valid, or originally flawed.

Originally DID was introduced to reduce the size of the identifier in the paging advertisement messages, down from 24 bits to 10 bits; and to provide enhanced privacy for the MS, eliminating the presentation of a modula 2 hash of the MS MAC Address.

Now we are learning that 10 bits for DID is completely inadequate for sufficiently differentiated identification to avoid excessive 'false-positive' paging indications.

We also learn that DID number space management is extremely complex and limiting on the network, especially for distributed management of paging group management and paging traffic.

And the benefit to MS privacy is also not as pronounced. After all, identification by modula 2 hash of 48 bit MS MAC Address still yields 16million possible MS MAC Addresses, not the true exact MS MAC Address. Such obfuscation may be adequate for our privacy purposes.

In any event, we just no longer are seeing adequate benefit to justify the very considerable negative impact to network implementation complexity, and limitation.

Finally, I don't see how this is going to work with legacy ASN, and if I have to support regular MS MAC Address hash based PAG-ADV to support legacy ASN anyway, this just continues to minimize the opportunity for benefit from this complex new feature.


**Suggested Remedy**

In P802.16m/D8, page 55, line 30, delete subclause 16.2.1.2.3 in its entirety.

In P802.16m/D8, page 85, line 43, table 679, remove the table row for 'Deregistration Identifier (DID)'

In P802.16m/D8, page 85, line 45, table 679,
modify the sentence in 'Conditions' as:
'In the legacy network mode, <del>DID shall not be included, and</del>the ABS performs a mapping for paging parameters between AAI air interface and legacy network interface.

In P802.16m/D8, page 88, line 50, table 680, remove '/DID' from the 'Conditions'

In P802.16m/D8, page 90, line 12, remove the text '<del>The DID is included only when the Network Configuration indicates ABS is attached to the advanced network.</del>' from 'Conditions'

In P802.16m/D8, page 90, line 20, table 680, delete the row for 'Deregistration Identifier (DID)'

In P802.16m/D8, page 345, line 42, change the equation to: 'Paging carrier index = AMS MAC Address modulo N'

In P802.16m/D8, page 419, line 13, modify the sentence as: '<del>If the Network Configuration bit in the S-SFH is set to 0b1, t</del><ins>T</ins>he AMS provides its actual MAC address in the AAI_RNG-REQ message<del>, instead of providing the DID</del>.'

In P802.16m/D8, page 442, line 64, modify the sentence as: '<del>If the Network Configuration bit in the S-SFH is set to 0b1, t</del><ins>T</ins>he AMS provides its actual MAC address in the AAI_RNG-REQ message<del>, instead of providing the DID</del>.'

In P802.16m/D8, page 443, line 20, modify the sentence as: '<del>If the Network Configuration bit in the S-SFH is set to 0b1, t</del><ins>T</ins>he AMS provides its actual MAC address in the AAI_RNG-REQ message<del>, instead of providing the DID</del>.'


**GroupResolution**                    **Decision of Group:**   **Principle**

[Editor's Note: Add the following text after line 36 in page 55 in "16.2.1.2.3 Deregistration Identifier (DID)" as shown below]

The network shall assign a 12-bit DID to each AMS during Idle Mode initiation. The network may assign a new DID to an AMS during location update procedure. The DID shall uniquely identify the Idle Mode AMS within the set of paging group ID, paging cycle and paging offset. <ins>The AMS shall be assigned a randomly selected DID from the available DID space.</ins>

[Editor's Note: Add the following text after line 31 in page 431 in "16.2.18 Idle mode" as shown below]

An AMS is assigned during deregistration or location update, to one or more paging groups and, per paging group, a specific paging cycle and paging offset. The values of paging cycle and paging offset can be different among AMSs assigned to same paging group.<ins>The assignment of paging offset shall be performed in such a way that the paging offset of different idle mode AMSs is pseudo-randomized.</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.1; MAC Addressing

**Editor's Notes**                    **Editor's Actions**     a) done

**Comment by:**          Phillip   Barber              **Membership Status:**                  **Date:** 7-Sep-2010

**Comment #  B058**                    **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**          **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 61      **Line** 41      **Fig/Table#**          **Subclause** 16.2.2.1.3.4

There is just no justification to have 16.2.2.1.3.4 Sleep Control Header (SCH) as a HEADER, and not as a normal control message.
Same thing applies to 16.2.2.1.3.5 AMS Battery Level Report Header.
There are just these two special items identified and set aside to be control activity conducted by Header, of all of the many control messages and activities conducted in the MAC. Why are these so special? What is the special gain? Why don't we just do all of our control messaging by Header instead of bothering with MAC control messages?
Certainly it is not to save bits. The 35 reserved bits in the AMS Battery Level Report Header disprove that argument.
It cannot be to save complexity, else we would have done it for the entire Sleep Mode messaging operation, not just for one element of it.
I just cannot see the justification for the additional complexity or differentiated treatment.

**Suggested Remedy**

In P802.16m/D8, delete page 61, line 41 through page 64, line 34, deleting subcluase 16.2.2.1.3.4 and 16.2.2.1.3.5 in their entirety.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The SCH is being modified to remove state change elements; battery level report has equivalent control  requirements to channel feed back and therefore deserves similar header treatment.

**Group's Notes**

Clause 16.2.2; MAC PDU Formats

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment by:**  Phillip Barber  **Membership Status:**  **Date:** 7-Sep-2010

**Comment #  B059**  **Document under Review:**  **P802.16m/D8**  **Ballot ID:  sb_16m**

**Comment**  **Type** Technical  **Part of Dis** ☐ **Satisfied** ☐  **Page** 311  **Line** 29  **Fig/Table#**  **Subclause** 16.2.6.3.3

The process of concurrent multicarrier communication during handover defined in this section is too complex and should be removed.
The single carrier iteration of this is too complex as well and should be removed.
The process requires the AMS to communicate concurrently with both the Serving ABS and Target ABS during the re-entry process interval at the Target ABS. For both single and multicarrier this requires a degree of Scheduler coordination between the Serving ABS and Target ABS that is complex, has negative performance and latency implications, and is unnecessary to achieve robust and timely handover.
And it is not as if the network will really be able to efficiently transfer data to the AMS while it is undergoing such transition, at least in a single carrier model. The dual carrier model is slightly more plausible, but requires that all terminals essentially implement full FDD operation.
The objective should be to minimize the interruption time for data transfer. Our best way to accomplish this is to minimize the amount of time that it takes to transfer the point-of-attachment relationship from the Serving ABS to Target ABS. The complex methods proposed here don't appreciably reduce the data latency, but they certainly do add tremendous complexity and network burden.
Remove the feature requiring concurrent transmition to both Serving ABS and Target ABS for both single and multicarrier during handover.

**Suggested Remedy**

Accept the text proposed in contribution C802.16m-10/1125

**GroupResolution**  **Decision of Group:**  **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 13-14-0

Reason: The mentioned complexity is not justified.

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**  **Editor's Actions**  b) none needed

| | | | |
|---|---|---|---|
| **Comment by:** | Phillip   Barber | **Membership Status:** | **Date:** 7-Sep-2010 |

**Comment #  B060**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**      **Type** General      **Part of Dis** ☒  **Satisfied** ☐      **Page** 847   **Line** 11      **Fig/Table#**      **Subclause** 16.4.10

This whole, new 'Low Duty Mode' of operation for Femto BS is complex and unwarranted.

This introduces a whole new state management and synchronization problem between the AMSs and the Femto BS and network.

Impact to Idle Mode state management? Location Update processing? Handover timing control and management? Detection and selection of ABS for initial network entry and re-entry?

Assumptions about the ability to detect all affected AMS in Idle Mode operation is problematic.

Such complex state management is completely undefined. Method of synchronization is undefined.

And such feature is unnecessary since the interference mitigation techniques can be negotiated and invoked by the affected Macro and Femto BSs through backhaul communication, in the absence of some new complex state on the Femto BS.

**Suggested Remedy**

In P802.16m/D8, delete page 847, line 11 through page 848, line 22, deleting subclause 16.4.10 Low-duty Operation Mode in its entirety.

**GroupResolution**                        **Decision of Group:   Disagree**

**Reason for Group's Decision/Resolution**

The benefit brought by implementing LDM feature  for reducing Interference still far outweigh any possible operational or implementation complexity.

**Group's Notes**

Clause 16.4; Other Femto

**Editor's Notes**                    **Editor's Actions**      b) none needed

**Comment  by:**                     Phillip   Barber                **Membership Status:**                              **Date:** 7-Sep-2010

**Comment #  B061**                          **Document under Review:  P802.16m/D8**                          **Ballot ID:  sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐          **Page** 852     **Line** 1          **Fig/Table#**          **Subclause** 16.5

While limited application of geographically disbursed antenna areas on a single base station can accrue useful spatial diversity gain and differentiated path gain, proposed multi-Base Station PHY level or frame level coordination is fantasy and beyond reasonable implementation. Network and device latency alone doom such endeavors from practical implementation. Even disbursed antenna areas on the same Base Station can suffer from these latencies, crippling any gain, except in the most unique deployment circumstances.

**Suggested Remedy**

Remove the multi-BS fantasy features and retain the disbursed multi-antenna, single-BS feature

**GroupResolution**                          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The performance of Single BS precoding with Multi-BS coordination has been evaluated under realistic backbone latency assumptions in C802.16m-09/0023 and C802.16m-09/1675. Additionally, different multi-BS modes have different requirements on backbone information exchange, it is therefore not appropriate to object to this section in its entirety based on network latency concerns.

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**              **Editor's Actions**     b) none needed

| **Comment  by:** | Phillip  Barber | **Membership Status:** | **Date:** 7-Sep-2010 |

**Comment #  B062**                          **Document under Review:  P802.16m/D8**                          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page** 914     **Line** 64     **Fig/Table#**     **Subclause** 16.12

I disagree with the resolution of comment A315.
The comment has substantial merit.
External references to the detailed content of the standard (such as conformance documentation) cannot easily be implemented because the standard is missing fixed, named hooks to the detailed normative elements. Without fixed named destinations, external references must refer to the context by subclause and table numbers. However, such numbers are not stable with respect to future maintenance actions. An example of the difficulties that will arise during later maintenance is documented in a liaison statement from ETSI BRAN (IEEE L802.16-07/043 <http://ieee802.org/16/liaison/docs/L80216-07_043.pdf>). The request made in that liaison statement could not be accommodated, and the maintenance of the conformance documentation suffered accordingly.

**Suggested Remedy**

Create a new subclause with the appropriate feature identification.

**GroupResolution**                          **Decision of Group:**  **Disagree**

**Reason for Group's Decision/Resolution**

no specific remedy povided

**Group's Notes**

Clause 16.12; General NEW

**Editor's Notes**                    **Editor's Actions**     b) none needed

**Comment  by:**          Phillip   Barber                    **Membership Status:**                        **Date:**  7-Sep-2010

**Comment #  B063**                    **Document under Review:**  **P802.16m/D8**                    **Ballot ID:**  **sb_16m**

**Comment**       **Type**  General        **Part of Dis**  ☒  **Satisfied**  ☐        **Page**  488    **Line**  5          **Fig/Table#**          **Subclause**  16.3.3.5.1

the reference to clause 8.4 from 802.16-2009 is remarkably imprecise and brings too much of the legacy system into focus. Can we be more specific about the reference location in 8.4?

**Suggested Remedy**

replace the reference '8.4' with the more preciese reference within clause 8.4

**GroupResolution**                         **Decision of Group:**    **Principle**

The subset includes the first WirelessMAN-OFDMA DL time zone to support the transmission of the preamble, FCH and MAP, which are defined in ~~8.4~~ 8.4.4.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.3; PHY Frame Structure

**Editor's Notes**               **Editor's Actions**     a) done

**Comment  by:**          Phillip   Barber          **Membership Status:**                  **Date:**  7-Sep-2010

**Comment #  B064**                    **Document under Review:**  **P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**       **Type** General      **Part of Dis** ☒ **Satisfied** ☐      **Page** 489   **Line** 39       **Fig/Table#**        **Subclause**  16.3.3.5.1

the reference to clause 8.4 from 802.16-2009 is remarkably imprecise and brings too much of the legacy system into focus. Can we be more specific about the reference location in 8.4?

**Suggested Remedy**

replace the reference '8.4' with the more preciese reference within clause 8.4

**GroupResolution**                    **Decision of Group:**   **Agree**

The subset includes the 1st Wireless- MAN-OFDMA UL time zone to support the transmission of the ranging channel, feedback channel and ACK channel, which are defined in ~~8.4~~ 8.4.4.6.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.3.3; PHY Frame Structure

**Editor's Notes**                    **Editor's Actions**     a) done

| **Comment_by:** | Pei-Kai Liao | **Membership Status:** | **Date:** 7-Sep-2010 |

**Comment #** **B065**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 855   **Line** 56     **Fig/Table#**     **Subclause** 16.5.1.3.1

Current text of PMI concatenation scheme is not clear. It is suggested to further clarify it with the proposed remedy.

**Suggested Remedy**

CPMI value which is defined in Table 973<del>:</del><ins>. ABS utilizes the phase information to fine tune the precoder corresponding to the feedbacked PMI, and the modified precoder is p*v, where v is the precoder.</ins>

**GroupResolution**                    **Decision of Group:**   **Principle**

Resolved by comment #B10190:

Adopt the proposed text in contribution C80216m-10/1098.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**          **Editor's Actions**      b) none needed

| Comment by: | Kanchei Loa | Membership Status: | Date: 7-Sep-2010 |

**Comment #** **B066**        Document under Review: **P802.16m/D8**        Ballot ID: **sb_16m**

**Comment**        **Type** General        **Part of Dis** ☒  **Satisfied** ☐        **Page** 856    **Line** 46        **Fig/Table#**        **Subclause** 16.5.1.3.1

In current UL sounding based CL-MD and Co-MIMO operation, the purpose of DL/UL phase mismatch calibration is solely for TX/RS radio phase mismatch at ABS, other than the over the air (OTA) channel mismatch. However, from the view of probability, it is hard to get the channel reciprocity in single DL/UL channel, not mention to the scenario where multiple ABSs exist and all multiple DL/UL channels satisfy the condition of channel reciprocity. Therefore, it is required to add the calibration procedure for OTA channel mismatch.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1136 or its latest revision.

**GroupResolution**        **Decision of Group:**   **Principle**

Resolved by comment B187:

Adopt the text proposal in C802.16m-10/1136r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**        **Editor's Actions**    b) none needed

**Comment  by:**   Shih-Yuan  Cheng

**Membership Status:**

**Date:** 7-Sep-2010

**Comment #  B067**

**Document under Review:  P802.16m/D8**

**Ballot ID:  sb_16m**

**Comment**   **Type** Editorial   **Part of Dis** ☐ **Satisfied** ☐   **Page** 311   **Line** 56   **Fig/Table#**   **Subclause** 16.2.6.3.3

Correct the typo "and and".

**Suggested Remedy**

If the AMS does not have the latest SFH for any of the T-ABSs included in AAI-HO-CMD, the AMS should cancel the HO by sending AAI-HO-IND with HO event code 0b11 and and SFH mismatch indication 0b1.

**GroupResolution**    **Decision of Group:**   **Agree**

If the AMS does not have the latest SFH for any of the T-ABSs included in AAI-HO-CMD, the AMS should cancel the HO by sending AAI-HO-IND with HO event code 0b11 and and SFH mismatch indication 0b1.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.6; MAC HO procedures

**Editor's Notes**    **Editor's Actions**    a) done

**Comment  by:**          Shih-Yuan  Cheng          **Membership Status:**          **Date:** 7-Sep-2010

**Comment #  B068**                **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☐  **Satisfied** ☐          **Page** 316          **Line** 41          **Fig/Table#**          **Subclause** 16.2.6.3.5.2

Correct the typo "dotted".

**Suggested Remedy**

Messages depicted with dotted solid lines are transmitted only in certain HO scenarios.

**GroupResolution**                **Decision of Group:**    **Disagree**

**Reason for Group's Decision/Resolution**

Reason: current text is correct.

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**      b) none needed

**Comment by:** Shih-Yuan Cheng

**Membership Status:**

**Date:** 7-Sep-2010

**Comment #** **B069**

**Document under Review:** **P802.16m/D8**

**Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 317    **Line** 30    **Fig/Table#**    **Subclause** 16.2.6.3.5.2

Correct the typo "dotted".

**Suggested Remedy**

Messages depicted with dotted solid lines are transmitted only in certain HO scenarios.

**GroupResolution**    **Decision of Group:** **Disagree**

**Reason for Group's Decision/Resolution**

Reason: current text is correct.

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**    **Editor's Actions**    b) none needed

| | | |
|---|---|---|
| **Comment by:** | Yan Zheng | **Membership Status:** | **Date:** 7-Sep-2010 |

| | | | |
|---|---|---|---|
| **Comment #** **B070** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 497   **Line** 1   **Fig/Table#**   **Subclause** 16.3.3.7

Current frame structure shown in Table 803 supports co-existence with TD-SCDMA with 1/8 CP ratio. However it does not provide support for 1/16 CP ratio. This contribution provides the frame configuration for 1/16 CP to amend this missing part and gain at least 6% to frame configraution 23,24,25.

**Suggested Remedy**

Please see the detial in C802.16m-10/1139.doc or later version

**GroupResolution**                     **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

In favour: 14
Opposed: 10

Reason for rejection:
The current 16m draft standard already has a solution to allow co-existence with TD-SCDMA. There's no reason to add another options without enough justification and analysis.  This does not adequately address TDD-LTE

**Group's Notes**
Clause 16.3.3; PHY Frame Structure

**Editor's Notes**          **Editor's Actions**      b) none needed

| **Comment  by:** | Yan  Zheng | **Membership Status:** | **Date:** 7-Sep-2010 |

**Comment #  B071**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 497   **Line** 1     **Fig/Table#**     **Subclause** 16.3.3.7

Blind decoding is necessary for 1/8, 1/16 and 1/4 CP ratio. It's a burnden for AMS vendor. Although there is no 1/16 and 1/4 CP ratio product, it may happen in the future and introduce extra complexity to 16 device. Chip re-design might be necessary to overcome this problem. We may unify the first subframe to 1/8 CP ratio and the frist subframe includes A-Preamble and superframe header. AMS can decode the first subframe with fixed 1/8 CP ratio.

**Suggested Remedy**

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

No remedy provided.

**Group's Notes**

Clause 16.3.3; PHY Frame Structure

**Editor's Notes**          **Editor's Actions**     b) none needed

| | | |
|---|---|---|
| **Comment by:** Shih-Yuan Cheng | **Membership Status:** | **Date:** 8-Sep-2010 |
| **Comment #  B072** | **Document under Review:  P802.16m/D8** | **Ballot ID:  sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☒ **Satisfied** ☐    **Page** 120    **Line** 12    **Fig/Table#**    **Subclause** 16.2.3.12

Clarify the Table 691 AAI-HO-CMD message format.

**Suggested Remedy**

Adopt text proposal of C802.16m-10/1147 or its latest version.

**GroupResolution**                    **Decision of Group:**    **Agree**

Adopt text proposal of C802.16m-10/1147

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; HO-CMD; Handover

**Editor's Notes**          **Editor's Actions**    a) done

The tables from this comment are already covered in comment B036

| **Comment by:** | I-Kang Fu | **Membership Status:** | | **Date:** 8-Sep-2010 |

| **Comment #** **B073** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 493    **Line** 1    **Fig/Table#**    **Subclause** 16.3.3.6.1

Some description for multi-carrier frame structure need to be clarified

**Suggested Remedy**

Multicarrier operation is only performed between Advanced Air Interface AAI subframes \<add\> over different carriers \</add\>.

**GroupResolution**                    **Decision of Group:**    **Principle**

Multicarrier operation is only performed between Advanced Air Interface AAI subframes \<ins\> over different carriers that belong to the same basestation(ABS)\</ins\>.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.3; PHY Frame Structure

**Editor's Notes**            **Editor's Actions**    a) done

| | | | |
|---|---|---|---|
| **Comment by:** | I-Kang Fu | **Membership Status:** | **Date:** 8-Sep-2010 |
| **Comment #  B074** | | **Document under Review:**  P802.16m/D8 | **Ballot ID:**  sb_16m |

**Comment**      **Type** General      **Part of Dis** ☐ **Satisfied** ☐      **Page** 495      **Line** 54      **Fig/Table#**      **Subclause** 16.3.3.6.2

Multi-Carrier configuration lookup table (Table 803 depicted in line#51, page#495) is missing

**Suggested Remedy**

Adopt the text proposal in C802.16m-10/1162 or its latest revision

**GroupResolution**                    **Decision of Group:**   **Principle**

Adopt the text proposal in C802.16m-10/1162r2

**Reason for Group's Decision/Resolution**

Vote: 25-6 (passes)

**Group's Notes**

Clause 16.3.3; PHY Frame Structure

**Editor's Notes**                    **Editor's Actions**     a) done

PHY done (LH), MAC done (HJK) - needs cross-reference for new table (done, RGM)

| **Comment by:** | Dongmei Fang | **Membership Status:** | | **Date:** 8-Sep-2010 |
|---|---|---|---|---|

**Comment #** **B075**     **Document under Review:** **P802.16m/D8**     **Ballot ID:** **sb_16m**

**Comment**     **Type** Editorial     **Part of Dis** ☒ **Satisfied** ☐     **Page** 116     **Line** 35     **Fig/Table#**     **Subclause** 16.2.3.9

Reference to Table 770 is incorrect.

**Suggested Remedy**

Correct reference on page 116, line 44, from Table 770 to Table 795. Add a link to this table so that when the table numbers are updated this reference is automatically updated too.

**GroupResolution**     **Decision of Group:**  **Agree**

Correct reference on page 116, line 44, from Table 770 to Table 795. Add a link to this table so that when the table numbers are updated this reference is automatically updated too.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; REG-RSP

**Editor's Notes**     **Editor's Actions**     a) done

**Comment  by:**       Dongmei  Fang              **Membership Status:**              **Date:** 8-Sep-2010

**Comment #  B076**                    **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**       **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 190   **Line** 1        **Fig/Table#**       **Subclause** 16.2.3.39

NIP_th1 is not defined.

**Suggested Remedy**

Replace all occurrences of NIP_th1 with NIP_th_1 throughout the document (3 occurrences in total).

**GroupResolution**                    **Decision of Group:  Principle**

Resolved by Comment #10046:
Adopt the proposed text in C802.16m-10/1216r2

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; MULTI_BS_MIMO-REQ

**Editor's Notes**              **Editor's Actions**    b) none needed

The tables from this comment are already covered in comment B10046

**Comment by:**          Song  Qiwen                    **Membership Status:**                    **Date:** 8-Sep-2010

**Comment #  B077**                          **Document under Review: P802.16m/D8**                **Ballot ID:  sb_16m**

**Comment**          **Type** Technical       **Part of Dis** ☒ **Satisfied** ☐      **Page** 247    **Line** 4        **Fig/Table#**           **Subclause** 16.2.3.57

The new table format for control message AAI_ARS-CONFIG-CMD is proposed in contribution C802.16m-10/1153.doc

**Suggested Remedy**

Adopted C802.16m-10/1153.doc or its latest version

**GroupResolution**                    **Decision of Group:**   **Agree**

Adopted C802.16m-10/1153

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; ARS-CONFIG-CMD

**Editor's Notes**                    **Editor's Actions**      a) done

**Comment  by:**        Zhang   Jing                  **Membership Status:**                **Date:** 8-Sep-2010

**Comment #  B078**                    **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 339    **Line** 31        **Fig/Table#**          **Subclause** 16.2.8.2.9.1.2

AMS may also scan serving ABS's partially configured carriers and provide report for ABS perform carrier management and pre-assignment.

**Suggested Remedy**

The AMS may also scan other <Begin delete>fully configured<End delete> carriers of the serving ABS which are not in use by the AMS.

**GroupResolution**                      **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 0, 3, 0

Fully configured carrier is used for AMS to perform HO reentry, which is required to be scanned.

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**              **Editor's Actions**      b) none needed

**Comment  by:**              ke   Zeng          **Membership Status:**              **Date:**  8-Sep-2010

**Comment #  B079**                    **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☒ **Satisfied** ☐    **Page** 148   **Line** 60    **Fig/Table#**         **Subclause** 16.2.3.19

The new table format for control message AAI_FFR-CMD/AAI_FFR-REP are proposed in contribution C802.16m-10/1154.doc

**Suggested Remedy**

Adopted C802.16m-10/1154.doc or its latest version

**GroupResolution**              **Decision of Group:**   **Agree**

Adopted C802.16m-10/1154.

Editor: note there are later revisions (original was accepted)

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; FFR-CMD

**Editor's Notes**              **Editor's Actions**     a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Jie Zhao | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B080**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☒ **Satisfied** ☐   **Page** 339   **Line** 20   **Fig/Table#**   **Subclause** 16.2.8.2.9.1.1

AMS may scan neighbor ABSs' partially carriers and provide scan report for ABS to pre-assignment. Since The serving ABS may communicate with the target ABS(s) to help the AMS obtain the pre-assigned secondary carriers before handover execution. Secondary carriers can be fully or partiially configured carriers.

**Suggested Remedy**

The AAI-NBR-ADV message shall carry neighbor ABS's multicarrier configuration information to facilitate AMS's scanning of neighbor ABSs' fully configured carriers.<Begin insert>Partially configured carriers may also be scanned by AMS.<End insert>

**GroupResolution**              **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 1, 5, 1

Pre-assignment of secondary carrier is neither time critical nor affecting HO decision.

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**          **Editor's Actions**     b) none needed

| **Comment  by:** | Wei   Ruan | **Membership Status:** | **Date:** 8-Sep-2010 |

| **Comment #  B081** | **Document under Review:  P802.16m/D8** | **Ballot ID:  sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☒ **Satisfied** ☐    **Page** 886   **Line** 30    **Fig/Table#**    **Subclause** 16.7.2.1

Specify limits on scanning interval

**Suggested Remedy**

Set to same as non-femto interval

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is not complete.  A solution is suggested, but there is no indication where to do this and what to write.

**Group's Notes**

Clause 16.7; Other SON

**Editor's Notes**            **Editor's Actions**     b) none needed

**Comment by:**                    tong   jianfei                    **Membership Status:**                    **Date:** 8-Sep-2010

**Comment #  B082**                    **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**       **Type** Technical       **Part of Dis** ☒ **Satisfied** ☐       **Page** 460   **Line** 12       **Fig/Table#**       **Subclause** 16.2.23

The reason of Disagree on comment A069 in last session is "regardless of receiving battery level report the power update mechanism is not impacted.", then why does this sentense shall not be deleted?

**Suggested Remedy**

<del>
Power update mechanism as specified in section 8.4.10.3 may be used when an ABS receives an AMS's battery level report and the ABS supports power management in Active Mode.
</del>

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Signaling for this feature  by Extended Header is not efficient. Protocol should use MAC control message for this.

**Group's Notes**

Clause 16.2.23; MAC Power Management for the Active Mode

**Editor's Notes**                    **Editor's Actions**     b) none needed

**Comment  by:**                    xu   heng                 **Membership Status:**                              **Date:**  8-Sep-2010

**Comment #  B083**                 **Document under Review:**  **P802.16m/D8**               **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical      **Part of Dis** ☒ **Satisfied** ☐      **Page** 460   **Line** 7        **Fig/Table#**        **Subclause** 16.2.23

1. There is no such an operation as "cancel" in message transaction, but another report operation shall be initialized by the AMS.
2. The battery level will not back to a certain threshold unless the AMS is plugged in a charger, so there is no such a status which indicates the AMS battery level back to a certain threshold but not plugged into a charger.
3. The power control mechanism is used anyway when an AMS is in normal operation, but not only used in power management. Moreover, Why do we use the power update mechanism of legacy system?

**Suggested Remedy**

Replace the text:
An AMS may report its battery level when the battery level changes. The AMS shall cancel the previous battery report as soon as its battery level has returned to a certain threshold, or as soon as the AMS is plugged in a charger.
As:
An AMS may report its battery level using AMS Battery Report header (in Table 661) when the battery level changes and the AMS is not plugged in a charger. Once the battery level is reported, the AMS shall report its battery status (with AMS Battery Status = 0b0 in AMS Battery Report header) as soon as the AMS is plugged in a charger.
<Begin Delete>
Power update mechanism as specified in section 8.4.10.3 may be used when an ABS receives an AMS's battery level report and the ABS supports power management in Active Mode.
<End Delete>

**GroupResolution**                    **Decision of Group:**   **Agree**

Accept-Modify: The first proposed modification is clearer if it reads as:
"An AMS may report its battery level using AMS Battery Report header (in Table 661) when the battery level changes. The AMS shall update its battery report (with AMS Battery Status = 0b0 in AMS Battery Report header) as soon as the AMS is plugged in a charger."

The second proposed modification shall be changing P460 L12-13 to read:
"The ABS may update the AMS power upon receiving a battery level report by using the AAI_UL_POWER_ADJ message."

**Reason for Group's Decision/Resolution**

Vote: 9, 3, 0.
Approved.

**Comment  by:**              Zhao  Wei                **Membership Status:**                        **Date:** 8-Sep-2010

**Comment #  B084**                          **Document under Review:  P802.16m/D8**                 **Ballot ID:  sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☒ **Satisfied** ☐      **Page** 460    **Line** 7        **Fig/Table#**        **Subclause** 16.2.23

The trigger of an AMS report its battery level is not clear enough. An AMS shall only report its battery level when it is not charged and the level decreases to a certain threshold, as the power management may increase the load of management work of the ABS. Some other remedies are also proposed in our contribution.

**Suggested Remedy**

Adopted C802.16m-10/1152.doc or its latest version

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Signaling for this feature  by Extended Header is not efficient. Protocol should use MAC control message for this.

**Group's Notes**

Clause 16.2.23; MAC Power Management for the Active Mode

**Editor's Notes**                **Editor's Actions**      b) none needed

| | | | |
|---|---|---|---|
| **Comment  by:** | Junghoon  Jee | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #  B085**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☒  **Satisfied** ☐    **Page** 329   **Line** 25    **Fig/Table#**    **Subclause** 16.2.6.5.2.2.2

The necessity of measurement gaps is optional according to the explanation from third paragraph of 16.2.6.5.2.2.2. Therefore, this needs to be clearly stated as optional feature.

**Suggested Remedy**

s/"are needed"/"may be needed".
Therefore, the amended texts would be the following.
"For single radio AMSs, measurement gaps may be needed to allow..."

**GroupResolution**                    **Decision of Group:**   **Agree**

s/"are needed"/"may be needed".
Therefore, the amended texts would be the following.
"For single radio AMSs, measurement gaps may be needed to allow..."

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.6; MAC HO procedures

**Editor's Notes**                  **Editor's Actions**     a) done

| **Comment by:** | Mingxia Xu | **Membership Status:** | | **Date:** 8-Sep-2010 |

| **Comment #** **B086** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**　　**Type** Technical　　**Part of Dis** ☒　**Satisfied** ☐　　**Page** 121　**Line** 49　　**Fig/Table#**　　**Subclause** 16.2.3.12

The Action Time specifies the frame where AMS should start to perform network reentry at the TABS or LZone or R1 BS. The remedy clarify on the usage/concept of this value and compelte the description of this field based on the value of CDMA_RNG_FLAG field. The current description of this field is incomplete and not strict.

**Suggested Remedy**

[Either following two suggested remedies can be accepted]
Replace the text:
The absolute frame number at the S-ABS. When CDMA_RNG_FLAG is set to 1, it shall be set to the frame where either a normal or dynamic ranging channel is present.
As:
The 8 least significant bits of the absolute frame number at the T-ABS where the AMS starts to peform network reentry.
When CDMA_RNG_FLAG is set to 1, it indicates the frame where the ABS starts the CDMA ranging procedure.
When CDMA_RNG_FLAG is set to 0, it indicates the frame where the AMS starts to expect the UL bandwidth allocation for transmission of RNG-REQ at target R1 BS or LZone (i.e. Fast ranging opportunity) or AAI_RNG-REQ at target ABS.

**GroupResolution**　　　　　　　**Decision of Group:**　**Principle**

Resolved by comment #36:

Adopt contribution C802.16m-10/1116r2

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; HO-CMD; Handover

**Editor's Notes**　　　　　**Editor's Actions**　　　b) none needed

The tables from this comment are already covered in comment B036

| **Comment by:** | xia   yang | **Membership Status:** | **Date:** 8-Sep-2010 |
|---|---|---|---|

| **Comment #  B087** | **Document under Review:  P802.16m/D8** | **Ballot ID:  sb_16m** |
|---|---|---|

**Comment**    **Type** Technical    **Part of Dis** ☒ **Satisfied** ☐    **Page** 123    **Line** 36    **Fig/Table#**    **Subclause** 16.2.3.12

The Pre-assigned STID field is optional mandatory (i.e only be included in coordinated HO) according to section 16.2.6.3.5.2. For uncoordinated HO, the previous used STID is included in AAI_RNG-REQ instead.

**Suggested Remedy**

[Note: Add the Condition description of the Pre-assigned STID filed]
<ins>
Shall be included during the coordinated HO precedure.
</ins>

**GroupResolution**                        **Decision of Group:**    **Disagree**

**Reason for Group's Decision/Resolution**

There is no HO-CMD that meant to start at uncoordinated HO.

**Group's Notes**

Clause 16.2.3; MAC Control Messages; HO-CMD; Handover

**Editor's Notes**                **Editor's Actions**      b) none needed

**Comment  by:**          Junghoon  Jee          **Membership Status:**                **Date:** 8-Sep-2010

**Comment #  B088**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☒  **Satisfied** ☐          **Page** 329          **Line** 36          **Fig/Table#**          **Subclause** 16.2.6.5.2.2.2

In general, a multi-radio mobile station is capable of simultaneous reception on the Multi-RAT frequency bands thus not requiring DL gap patterns. Moreover, even when the mobile station performs the Single-Radio operation the mobile is still capalble of simultaneous transmission in one access and conducting measurement on another access thus not requring the UL gap patterns. Therefore, the necessity of UL and DL gap patterns are not clear.

**Suggested Remedy**

Delete the third paragraph of 16.2.6.5.2.2.2 if the right rationale regarding the necessity of UL and DL is not provided.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 0, 2, 0,
proposed change will break certain coexistence scenarios

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**      b) none needed

| **Comment by:** | Gongyi Xia | **Membership Status:** | **Date:** 8-Sep-2010 |
| --- | --- | --- | --- |

**Comment #** **B089**             **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**      **Type** Technical     **Part of Dis** ☒ **Satisfied** ☐    **Page** 99    **Line** 46    **Fig/Table#**    **Subclause** 16.2.3.4

The AAI-RNG-CFM message, as well as some other control messages like AAI-RNG-CFM/AAI-FFR-CMD/AAI-FFR-REP/AAI-TRF-IND, includes the field "Control Message Type" at the beginning of their parameters tables, while most others don't include it. Whether should this field be defined here? We should make some clean up on this field in all the control messages for consistency.

**Suggested Remedy**

[Note: need clarification and/or clean up work for consistency on this issue]

**GroupResolution**             **Decision of Group:** **Principle**

Resolved by Comment #B033:
Adopt contribution C802.16m-10/1113r

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; RNG-CFM

**Editor's Notes**             **Editor's Actions**     b) none needed

| | | | |
|---|---|---|---|
| **Comment by:** | Zhang ling | **Membership Status:** | **Date:** 8-Sep-2010 |

| | | | |
|---|---|---|---|
| **Comment #** **B090** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** | |

**Comment**  **Type** Technical   **Part of Dis** ☒  **Satisfied** ☐   **Page** 282   **Line** 19   **Fig/Table#**   **Subclause** 16.2.5.2.3.1.1

Incorrect reference. A comment to change the reference was accepted in the last recirculation, but table numbers have been updated without taking this comment into account.

**Suggested Remedy**

Replace "As specified in Table 764" with "As specified in Table 762". Preferably insert a link so that the table number get automatically updated when the table numbers are updated.

**GroupResolution**                         **Decision of Group:**  **Agree**

Replace "As specified in Table 764" with "As specified in Table 762". Preferably insert a link so that the table number get automatically updated when the table numbers are updated.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.5; MAC Security

**Editor's Notes**                **Editor's Actions**     a) done

**Comment  by:**          Junghoon  Jee          **Membership Status:**          **Date:** 8-Sep-2010

**Comment #  B091**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒ **Satisfied** ☐     **Page** 328   **Line** 55     **Fig/Table#**     **Subclause** 16.2652123

AMS having multiple radios is capable of transmitting in the serving access using the serving radio and conducting measurement on another potential target access using the other radio. Thus, the necessity of scan interval is not clear.

**Suggested Remedy**

Delete the step 8) if the right rationale regarding the necessity of scan interval for multi-radio MS is not provided

**GroupResolution**          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Step 8 addresses the case of single radio. Moreover, as per the definition of multi radio AMS, it could also work as a single radio AMS.

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment by:**          Ruqing  Yang                    **Membership Status:**                **Date:** 8-Sep-2010

**Comment #  B092**                    **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 170      **Line** 20      **Fig/Table#**          **Subclause** 16.2.3.27

What does this sentence mean? It seems to make no sense.


**Suggested Remedy**

<del>
The AAI-TRF-IND may include the following parameters at end of AAI-SLP-REQ message.
</del>


**GroupResolution**                    **Decision of Group:**   **Principle**


The AAI-TRF-IND may include the following parameters <del>~~at end of AAI-SLP-REQ message.~~</del>


**Reason for Group's Decision/Resolution**


**Group's Notes**

Clause 16.2.3; MAC Control Messages; TRF-IND

**Editor's Notes**                    **Editor's Actions**     a) done

The tables from this comment are already covered in comment B10040

**Comment by:** Ruqing Yang

**Membership Status:**

**Date:** 8-Sep-2010

**Comment #** **B093**

**Document under Review:** **P802.16m/D8**

**Ballot ID:** **sb_16m**

**Comment**   **Type** Editorial   **Part of Dis** ☒   **Satisfied** ☐   **Page** 106   **Line** 63   **Fig/Table#**   **Subclause** 16.2.3.8

This sentence is redundant and should be deleted.

**Suggested Remedy**

\<del\> The following parameters may be included in AMS capability negotiation parameters of AAI-REG-REQ. \</del\>

**GroupResolution**   **Decision of Group:** **Agree**

\<del\> The following parameters may be included in AMS capability negotiation parameters of AAI-REG-REQ. \</del\>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; REG-REQ

**Editor's Notes**   **Editor's Actions**   a) done

| **Comment by:** | ou   hua | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #  B094**                        **Document under Review:  P802.16m/D8**                        **Ballot ID:  sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 855      **Line** 15      **Fig/Table#**      **Subclause** 16.5.1.2

Definition of 'upon receiving' needs to be clarified ie timing of multi-MS response needs to be defined.

**Suggested Remedy**

**GroupResolution**                        **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

There is no multi-MS response. This is vendor/implementation specific when ABS communicates with other ABSs after it receives feedback from multiple MSs.

**Group's Notes**
Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**                **Editor's Actions**       b) none needed

| **Comment by:** | Xin Chang | **Membership Status:** | **Date:** 8-Sep-2010 |
|---|---|---|---|

| **Comment #** **B095** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |
|---|---|---|

| **Comment** | **Type** Technical | **Part of Dis** ☒ | **Satisfied** ☐ | **Page** 61 | **Line** 9 | **Fig/Table#** | **Subclause** 16.2.2.1.3.3 |
|---|---|---|---|---|---|---|---|

At the last ballot circulation, there was a comment (A097) to clean up in the usage of frame number and frame index. However, not all agreed changes were applied correctly in D8.


**Suggested Remedy**

On page 61, line 9, change: "Frame number where < del>to be allocated</del> UL resources for Adaptation ACK/NACK shall be allocated.

On page 133, line 11, change: Represents recommended start frame <del>number</del><ins>index</ins> within a super frame.

On page 253, line 9, change: <del>opportunities to which the message refers.</del>The frame identifier is <del>produced by concatinating the following two values: 1. The 2 least significant bits of the superframe number 2.The frame index within the superframe</del><ins> the 4 least significant bits of the frame number.</ins>

On page 756, line 21: Replace: "and t is the frame index calculated as four times superframe number plus frame number within a superframe (in range of 0 to 3)." by "and t is the frame number calculated as four times superframe number plus frame index within a superframe (in range of 0 to 3)."


**GroupResolution**          **Decision of Group:**   **Principle**

Edit:

On page 61, line 9, change: "Frame number where < del>to be allocated</del> UL resources for Adaptation ACK/NACK shall be allocated.

On page 133, line 11, change: Represents recommended start frame <del>number</del><ins>index</ins> within a super frame.

On page 253, line 9, change: <del>opportunities to which the message refers.</del>The frame identifier is <del>produced by concatinating the following two values: 1. The 2 least significant bits of the superframe number 2.The frame index within the superframe</del><ins> the 4 least significant bits of the frame number.</ins>

On page 766, line 21: Replace: "and t is the frame index calculated as four times superframe number plus frame number within a superframe (in range of 0 to 3)." by "and t is the frame number calculated as four times superframe number plus frame index within a superframe (in range of 0 to 3)."


**Reason for Group's Decision/Resolution**


**Group's Notes**

Clause 16.2.2; MAC PDU Formats

**Editor's Notes**          **Editor's Actions**     a) done

done hyunjeong (except remedy #4: PHY book) #4 done by RGM

**Comment  by:**            ZOU  QING          **Membership Status:**              **Date:** 8-Sep-2010

**Comment #  B096**              **Document under Review: P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 281    **Line** 10        **Fig/Table#**        **Subclause** 16.2.5.2.3.1.1

Lines 10-11 contradict section 16.2.4.1, which specifies that "bits within a byte are transmitted in the order "MSB first.""

**Suggested Remedy**

Delete "The ciphertext message authentication code is transmitted so that byte index 0 is transmitted first (i.e., LSB first)."

**GroupResolution**                **Decision of Group:**   **Agree**

This has been resolved by comment 10081 with the same resolution:

<del>The ciphertext message authentication code is transmitted so that byte index 0 is transmitted first (i.e., LSB first).</del>

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.5; MAC Security

**Editor's Notes**              **Editor's Actions**    b) none needed

| **Comment  by:** | Tao  Qian | **Membership Status:** | **Date:** 8-Sep-2010 |

| **Comment #  B097** | **Document under Review:  P802.16m/D8** | **Ballot ID:  sb_16m** |

**Comment**   **Type** Technical   **Part of Dis** ☒ **Satisfied** ☐   **Page** 112   **Line** 32   **Fig/Table#**   **Subclause** 16.2.3.9

The STID field with condition "Present if needed" should not be mandatory. It's Condition is suggested.

**Suggested Remedy**

[Note: Change the conditions of STID field. The M/O column needn't to be changed as it doesn't exist in the new table format]
Conditions: <del> Present if needed </del> <ins> Shall be included when an AMS is performing initial network entry or an AMS has no STID pre-assigned when it is performing network reentry precedure </ins>

**GroupResolution**                    **Decision of Group:   Agree**

[Note: Change the conditions of STID field. The M/O column needn't to be changed as it doesn't exist in the new table format]
Conditions: <del> Present if needed </del> <ins> Shall be included when an AMS is performing initial network entry or an AMS has no STID pre-assigned when it is performing network reentry precedure </ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; REG-RSP

**Editor's Notes**                    **Editor's Actions**      a) done

The tables from this comment are already covered in comment B035

| **Comment by:** | Chunmei Tang | **Membership Status:** | **Date:** 8-Sep-2010 |
|---|---|---|---|

**Comment #** **B098**   **Document under Review:** **P802.16m/D8**   **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☒ **Satisfied** ☐   **Page** 345   **Line** 31   **Fig/Table#**   **Subclause** 16.2.8.2.10.2

The SDD defines 4 states for the AMS: Initialization State, Access State, Connected State, Idle State. The Connected State is sub-divided into 3 modes: Sleep Mode, Active Mode, Scanning Mode. It is unclear how Normal Operation mode fits into this classification. It seems that Normal Operation is used synonymously with Connected State. Consistency should be brought to the standard by adopting one or the other and not both. Alternatively, Normal Operation should be described in relation to the identified states and modes in the SDD.

In addition to using Norma Operation as a term of art, the amendment also uses normal operation in the more litteral sense as oppsed to unnormal operation. What this means is unclear. Is is unnormal to be scanning?

**Suggested Remedy**

Page 84, line 57: replace "normal operation" with "Connected State"
Page 91, line 38: replace "normal operation" with "Connected State"
Page 132, line 57: replace "normal operation" with "Active Mode"
Page 154, line 27: replace "Normal Operation" with "Connected State"
Page 318, line 65: replace "the AMS and S-ABS resume their normal operation" with "the ABS may resume scheduling traffic for the AMS."
Page 345, line 13: replace: "data traffic and allocation follows the normal operation" with "the ABS may schedule traffic"
Page 354, line 31: replace: "Normal Operation" with "Connected State"
Page 430, line 17: replace: "can interupt the normal operation of Sleep Cycles" with "can interrupt the normal Sleep Cycle operation"
Page 465, line 55: replace: "normal operation" with "Connected State"
Page 466, line 32: replace: "normal operation" with "Connected State"
Page 896, line 15: replace: "normal operation" with "Connected State"
Page 916, line 46: replace: "Normal Operation" with "Active Mode"
Page 917, line 44: replace: "Normal Operation" with "Active Mode"

**GroupResolution**   **Decision of Group:**   **Principle**

accept C802.16-10_1265

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.8; MAC Multicarrier

**Editor's Notes**   **Editor's Actions**   a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Yingming Wang | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B099**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒ **Satisfied** ☐     **Page** 318     **Line** 45     **Fig/Table#**     **Subclause** 16.2.6.3.5.2

The resource retain timer is maintained at the previous serving ABS for determining the deadline of retaining the AMS's context. It seems to have nothing relationship with the HO reentry at the T-ABS.

**Suggested Remedy**

In the case of an uncoordinated handover, where AMS performs the contention based CDMA HO ranging at the T-ABS, the AAI-RNG-REQ message shall include the former serving BSID and previously used STID <del> if the resource retain timer is not expired. </del>

**GroupResolution**          **Decision of Group:**   **Principle**

Accept Modify as follows:
"In the case of an uncoordinated handover, where AMS performs the contention based CDMA HO ranging at the T-ABS, the AAI-RNG-REQ message shall include the former serving BSID and previously used STID if the ~~r~~Resource ~~r~~Retain ~~t~~Timer~~ ~~ is not expired."

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**     a) done

**Comment by:**           Yan   Chaoyi          **Membership Status:**               **Date:** 8-Sep-2010

**Comment #  B100**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒ **Satisfied** ☐     **Page** 148     **Line** 8     **Fig/Table#**     **Subclause** 16.2.3.18

There is a circular reference in Tables 697 and 698 that Table 697 references Table 698 and Table 698 reference Table 697 and neither specifies the CLC Start Time parameters.

**Suggested Remedy**

As a sponsor and not a developer of this section of the amendment I do no know how to resolve this comment. I therefore kindly request the 802.16 WG to suggest appropriate text, without which this amendment is incomplete.

**GroupResolution**                    **Decision of Group:**   **Principle**

Resolved by Comment #B167:

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; CLC-RSP; Co-located Coexistence

**Editor's Notes**                    **Editor's Actions**     b) none needed

| | | | | | |
|---|---|---|---|---|---|
| **Comment by:** | YANG shaochun | | **Membership Status:** | | **Date:** 8-Sep-2010 |

**Comment #** **B101**                **Document under Review:** **P802.16m/D8**                **Ballot ID:** **sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 323   **Line** 24      **Fig/Table#**      **Subclause** 16.2.6.4.1.2.1

Only Temporary STID may be pre-assigned in LZone according to Table 980.

**Suggested Remedy**

The AMS shall request UL bandwidth to send the AAI-RNG-REQ by using the pre-assigned <ins> Temporary </ins> STID if it is provided while in LZone.

**GroupResolution**                **Decision of Group:** **Agree**

The AMS shall request UL bandwidth to send the AAI-RNG-REQ by using the pre-assigned <ins> Temporary </ins> STID if it is provided while in LZone.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**                **Editor's Actions**      a) done

| **Comment by:** | Jiang   ying | **Membership Status:** | **Date:** 8-Sep-2010 |
|---|---|---|---|

**Comment #** **B102**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☒ **Satisfied** ☐      **Page** 493      **Line** 3      **Fig/Table#**      **Subclause** 16.3.3.6.1

The expression shall be corrected as sugguested remedy, which is more suitable for what is described in this section, as no WirelessMAN-OFDMA frame is mentioned here.

**Suggested Remedy**

No multicarrier operation is defined between the Advanced Air Interface <del>frames</del> <ins>subframes</ins> and WirelessMAN-OFDMA<del> frames </del> <ins>DL/UL time zones</ins>.

**GroupResolution**                              **Decision of Group:**   **Principle**

No multicarrier operation is defined between the Advanced Air Interface <del>~~frames~~</del> <ins>subframes</ins> and WirelessMAN-OFDMA frames.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.3; PHY Frame Structure

**Editor's Notes**                    **Editor's Actions**      a) done

| **Comment by:** | feng   shengrong | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #  B103**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☒ **Satisfied** ☐   **Page** 324   **Line** 49   **Fig/Table#**   **Subclause** 16.2.6.4.2.2

The AMS may also use the target BSs' detail information in MOB_NBR-ADV in LZone for cell selection.

**Suggested Remedy**

An AMS uses information acquired from <del> an AAI-NBR-ADV message </del> <ins> AAI_NBR-ADV messages in MZone and/or MOB_NBR-ADV messages in LZone </ins>for cell reselection.

**GroupResolution**                     **Decision of Group:   Principle**

Accept Modify as follows:

An AMS uses information acquired from <del> an AAI-NBR-ADV message </del> <ins> AAI-NBR-ADV messages in MZone and/or if R1 neigbhor BSs are indicated in AAI-NBR-ADV, MOB_NBR-ADV messages in LZone </ins>for cell reselection.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**      a) done

**Comment by:** Jared Yang    **Membership Status:**    **Date:** 8-Sep-2010

**Comment # B104**    **Document under Review:** P802.16m/D8    **Ballot ID:** sb_16m

**Comment**    **Type** Technical    **Part of Dis** ☒    **Satisfied** ☐    **Page** 92    **Line** 31    **Fig/Table#**    **Subclause** 16.2.3.2

The information that the AMS receives in the CLC Response during a handover may be relevant for the AMS in selecting the T-ABS when there are more than one candidate target ABS. However, when this information is sent in the AAI-RNG-RSP message, it is received too late to serve for this purpose. Since backbone signaling between the S-ABS and the candidate T-ABS occurs before the AAI-HO-CMD message is sent to the AMS, this information is available at the S-ABS and could be included in the AAI-HO-CMD message.

**Suggested Remedy**

Move the CLC Response field from the AAI-RNG-RSP message to the AAI-HO-CMD message within the for-loop that runs over the set of included T-ABSs. Specifically,
1) On page 92, line 31, remove the CLC Response row from the table.
2) On page 122, line 50, add a new row: CLC Response | Variable | The information of co-located coexistence response (as defined in Table 698) | It shall be included when the AMS has any Type I or II CLC class active.

**GroupResolution**    **Decision of Group:** Disagree

**Reason for Group's Decision/Resolution**

CLC Response only includes CLC start time and confirmation. These two parameters are not relevant to target ABS decision. AAI-RNG-RSP carries the CLC Response for the purpose of fast CLC activation after HO.

**Group's Notes**

Clause 16.2.3; MAC Control Messages; RNG-RSP

**Editor's Notes**    **Editor's Actions**    b) none needed

| | | | | |
|---|---|---|---|---|
| **Comment by:** | bao chao | **Membership Status:** | | **Date:** 8-Sep-2010 |

**Comment #** **B105**        **Document under Review:** **P802.16m/D8**        **Ballot ID:** **sb_16m**

**Comment**        **Type** Technical        **Part of Dis** ☒ **Satisfied** ☐        **Page** 118        **Line** 28        **Fig/Table#**        **Subclause** 16.2.3.10

change all the operators "=" to "==" in if/else statement in control message AAI-HO-IND/AAI-HO-REQ/AAI-HO-CMD. The operators "="
is used for value assignment, but not equality test. This change is suitable for all if/else statements in the whoel spec text.

**Suggested Remedy**

change all the operators "=" to "==" in if/else statement in control message AAI-HO-IND/AAI-HO-REQ/AAI-HO-CMD, or anywhere has
the same mistake in the whole spec text (e.g. line 34 in page 60, line 12 in page 645).

**GroupResolution**        **Decision of Group:** **Agree**

change all the operators "=" to "==" in if/else statement in control message AAI-HO-IND/AAI-HO-REQ/AAI-HO-CMD, or anywhere has
the same mistake in the whole spec text (e.g. line 34 in page 60, line 12 in page 645).

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; HO-IND; Handover

**Editor's Notes**        **Editor's Actions**    a) done

The tables from this comment are already covered in comment B036

**Comment  by:**        Xiuyan   Li              **Membership Status:**              **Date:** 8-Sep-2010

**Comment #  B106**               **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 853   **Line** 48        **Fig/Table#**          **Subclause** 16.5.1.1

Specify how the set of ABSs is defined ie exactly what is sent to the AMS via the AAI_MULTI_BS_MIMO-RSP control message.

**Suggested Remedy**

Possibly list of BSIDs?

**GroupResolution**                      **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The set of ABSs is defined based on adjAbsBitmapMultiBSMIMO. Details are specified in section 16.5.1.4. And the AAI_MULTI_BS_MIMO-RSP contains this parameter and reference.

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**          **Editor's Actions**      b) none needed

| **Comment by:** | Wang　Bo | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #　B107**　　　　　　　　**Document under Review:　P802.16m/D8**　　　　　**Ballot ID:　sb_16m**

**Comment**　　　**Type** Technical　　**Part of Dis** ☒　**Satisfied** ☐　　**Page** 120　**Line** 20　　**Fig/Table#**　　**Subclause** 16.2.3.12

Add description of reserved value 0b11.

**Suggested Remedy**

0b00: HO command;
0b01: Zone switch command from MZone to LZone;
0b10: AMS HO request rejected (ABS in list unavailable). In this case, AAI-HO-CMD message shall not include any T-ABS.
\<ins\> 0b11: Reserved \</ins\>

**GroupResolution**　　　　　　　　**Decision of Group:　Agree**

0b00: HO command;
0b01: Zone switch command from MZone to LZone;
0b10: AMS HO request rejected (ABS in list unavailable). In this case, AAI-HO-CMD message shall not include any T-ABS.
\<ins\> 0b11: Reserved \</ins\>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; HO-CMD; Handover

**Editor's Notes**　　　　　**Editor's Actions**　　a) done

The tables from this comment are already covered in comment B036

| **Comment by:** | Junxian Mo | **Membership Status:** | | **Date:** 8-Sep-2010 |

| **Comment #** **B108** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**　　**Type** Technical　　**Part of Dis** ☒　**Satisfied** ☐　　**Page** 446　**Line** 54　　**Fig/Table#**　　**Subclause** 16.2.20

Since a CLC classes imposes constraints on the scheduling at the ABS, what matters is not limits on the individual CLC classes, but the effects of the total number of active CLC classes from all served AMSs. In particular on needs to take into account the sum of all the active intervals for all served AMS, how frequent these occur, and he amount of overlap between these intervals. The ABS needs to be able to schedule other AMS during the gaps where one or several AMS are active on another co-located technology, so the ratio between AMS for which CLC classes are active and total traffic at the ABS is relevant too. If the load at the ABS is low, this ratio may be higher, since there is more room for sub-optimal scheduling. All these factors should be taken into when an AMS request the activation of a CLC class.

Therefor, it does not make sense to impose a requirement on the ABS to accept and honor a CLC request solely based on the paramters of the CLC class requested.

**Suggested Remedy**

Modify sentence on page 446, line 54 as follows:
The S-ABS shall accept the request from the AMS to activate a CLC class, and honor it (i.e., not unsolicited deactivate or change it after activation) if the requested CLC class meets the CLC limits<ins> and total set of CLC classes of all AMS that the ABS is currently supporting is within the tolerable limit of CLC classes that the ABS can support</ins>.

**GroupResolution**　　　　　　　**Decision of Group:**　**Principle**

Modify sentence on page 446, line 54 as follows:
The S-ABS shall accept the request from the AMS to activate a CLC class, and <ins>should</ins> honor it (i.e., not unsolicited deactivate or change it after activation) if the requested CLC class meets the CLC limits

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.20; MAC Co-Located Coexistence

**Editor's Notes**　　　　　　　**Editor's Actions**　　a) done

| | | |
|---|---|---|
| **Comment  by:** Fan  Guanghui | **Membership Status:** | **Date:** 8-Sep-2010 |
| **Comment #  B109** | **Document under Review:  P802.16m/D8** | **Ballot ID:  sb_16m** |

**Comment**　　**Type** Technical　　**Part of Dis** ☒　**Satisfied** ☐　　**Page** 426　**Line** 42　　**Fig/Table#**　　**Subclause** 16.2.17.2.3.1

In the listening window of sleep mode, if the TIMF is set to 0, the AMS will listen in the whole listening window. If the TIMF is set to 1, AAI_TRF-IND is required in the beginning of the listening window. If the traffic indication is positive for an AMS, the AMS will wait in the rest of the listening window for any unicast traffic and the ABS shall transmit at least one DL MAC PDU to the AMS in the listening window. Else if the traffic indication is negative, the AMS can end the listening window directly for power saving.

In most cases, the AMS may only be scheduled in a few frames in the listening window, considering the MAP IE control overhead and scheduling complexity, while the service flow QoS can still be satisfied. Therefore, the AMS need not listen in the whole listening window and the power consumption can be further saved in the listening window.

Our proposal gives a mechnism which can improve more power saving efficiency.

**Suggested Remedy**

Adopted C802.16m-10/1124.doc or its latest version

**GroupResolution**　　　　　　　　**Decision of Group:**　**Disagree**

**Reason for Group's Decision/Resolution**

Vote: 14, 6, 0

The gain of proposed scheme is valid only when default listening window is large. However, default listening window is desirable as small as possible to maximize AMS power saving gain. If needed, define it as optional in standard

**Group's Notes**

Clause 16.2.17; MAC Sleep Mode

**Editor's Notes**　　　　　**Editor's Actions**　　b) none needed

| Comment by: | Li Li | **Membership Status:** | **Date:** 8-Sep-2010 |

| **Comment #** B110 | **Document under Review:** P802.16m/D8 | **Ballot ID:** sb_16m |

**Comment**    **Type** Technical    **Part of Dis** ☒ **Satisfied** ☐    **Page** 845    **Line** 33    **Fig/Table#**    **Subclause** 16.4.8.1.2

The remedy gives some clarification on the content definition of the CSG white list. The CSG white list may include the absolute/relative location information, which is not properly described in current text.

To clarify the usage of the proposed location information content of the CSG white list, the remedy also gives an example of how to use the location information for an AMS initiating the scanning procedure.

**Suggested Remedy**

Adopt C802.16m-10/1127.doc or its lastest version

**GroupResolution**                    **Decision of Group:**    **Principle**

Please adopt the contribution C802.16m-10/1127r1.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.4; Other Femto

**Editor's Notes**                    **Editor's Actions**    a) done

**Comment by:**          Libra  Xiao          **Membership Status:**          **Date:** 8-Sep-2010

**Comment #  B111**          **Document under Review: P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☒  **Satisfied** ☐          **Page** 3          **Line** 1          **Fig/Table#**          **Subclause** 2

This section does not comply with the style guidelines of IEEE

**Suggested Remedy**

Adopted C802.16m-10/1159 or its latest version.

**GroupResolution**          **Decision of Group:   Agree**

Adopted C802.16m-10/1159

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 2; General

**Editor's Notes**          **Editor's Actions**     a) done

| **Comment by:** | xiaoling xiao | **Membership Status:** | **Date:** 8-Sep-2010 |

| **Comment #** B112 | **Document under Review:** P802.16m/D8 | **Ballot ID:** sb_16m |

**Comment**   **Type** Technical    **Part of Dis** ☒  **Satisfied** ☐    **Page** 313   **Line** 31    **Fig/Table#**    **Subclause** 16.2.6.3.4

According to the spec text, the second AAI_HO-CMD may still have multiple candidates, then should the AMS send another AAI_HO-IND to tell its final choice? The further state flow is not clear enough and may induce implemental confusion. We propose that a second AAI_HO-IND shall be sent if the AMS decides to handover to any target in the second AAI_HO-CMD, which can make the AMS HO procedure more controllable.

**Suggested Remedy**

Adopted C802.16m-10/0992r2.doc its latest version

**GroupResolution**                  **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 1, 1, 0
Handing of 1 target BS case is different from current framework.

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**             **Editor's Actions**      b) none needed

**Comment  by:**        Xuehuan  Wang                    **Membership Status:**                    **Date:** 8-Sep-2010

**Comment #  B113**                    **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**        **Type** Technical        **Part of Dis** ☒  **Satisfied** ☐        **Page** 588        **Line** 18        **Fig/Table#**        **Subclause** 16.3.5.5.1.2

In the WiMAX network deployment scenario, one ABS may be connected to more than one ASN GWs. If the legacy ASN GWs are partially updated to AAI ones, there may be such a scenario that the ABS is connected to both legacy ASN GW and advance ASN GW. The ABS should broad such a configuration status to the AMSs and to neighbor ABSs.
The AMS may support either advanced ASN only or both legacy ASN and advanced ASN. This capability should inform the ASN network for the purpose of connection mode selection or handover decision.

**Suggested Remedy**

Adopted C802.16m-10/0757r2.doc or its latest version

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 3-9-0

It is unclear whether the scenario being described needs to be addressed in this specification.

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**            **Editor's Actions**      b) none needed

**Comment  by:**        Shih-Yuan  Cheng        **Membership Status:**              **Date:** 8-Sep-2010

**Comment #  B114**              **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 856    **Line** 46        **Fig/Table#**        **Subclause**  16.5.1.3.1

Based on the same mechanism in the current multi-BS MIMO sounding phase calibration scheme in 16.5.1.3.1. A generation of calibration sounding sequence for over the air DL/UL phase mismtch is proposed to improve the transmission efficiency of calibration souding channels.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1136 or its latest revision.

**GroupResolution**                    **Decision of Group:   Principle**

Resolved by comment B187:

Adopt the text proposal in C802.16m-10/1136r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**              **Editor's Actions**      b) none needed

| **Comment by:** | Jia Lin | **Membership Status:** | | **Date:** 8-Sep-2010 |
|---|---|---|---|---|

**Comment #** **B115**  **Document under Review:** **P802.16m/D8**  **Ballot ID:** **sb_16m**

**Comment**  **Type** Technical  **Part of Dis** ☒ **Satisfied** ☐  **Page** 339  **Line** 13  **Fig/Table#**  **Subclause** 16.2.8.2.9

In 16m/D8, only trigger conditions definitions that are applicable for neighbor ABSs in single carrier scenario, but not for a multicarrier scenario. In multicarrier scenario, if currently defined trigger functions are used to trigger actions (e.g. respond on trigger with AAI_SCN-REP), it may happen that the AMS will be triggered to send lots of AAI_SCN-REP messages that are not useful for the serving ABS. Since the AMS communicates with the serving ABS on multiple carriers, even though one neighbor ABS's carrier metric is greater than a given absolute value, or greater than serving ABS's carriers metric by relative value, there may be no reason for action since there are other carriers available for the AMS at the serving ABS. In this case, the serving ABS can provide high data traffic throughput for the AMS, and the AMS doesn't need to send a scan report or HO-REQ.

**Suggested Remedy**

Adopted C802.16m-10/1126 or its latest version.

**GroupResolution**  **Decision of Group:** **Principle**

Adopted C802.16m-10/1126r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**  **Editor's Actions**  a) done

10/1126r4 done hyunjeong (except 1st remedy) 1st remedy done by RGM

**Comment  by:**          Chun-Yen  Hsu          **Membership Status:**          **Date:** 8-Sep-2010

**Comment #  B116**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☒  **Satisfied** ☐          **Page** 856   **Line** 46          **Fig/Table#**          **Subclause** 16.5.1.3.1

To clarity the current sounding based phase calibration scheme, we modify the current text which is originally for TX/RX RF phase mismatch and add a scheme
to solve the problem of over the air DL/UL phase mismatch.


**Suggested Remedy**

Adopt the contribution C802.16m-10/1136 or its latest revision.


**GroupResolution**                    **Decision of Group:**   **Principle**


Resolved by comment B187:


Adopt the text proposal in C802.16m-10/1136r4


**Reason for Group's Decision/Resolution**


**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment  by:**          Linghang  Fan                    **Membership Status:**                    **Date:**  8-Sep-2010

**Comment #  B117**                    **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**      **Type** General      **Part of Dis** ☐  **Satisfied** ☐      **Page** 600      **Line**          **Fig/Table#**          **Subclause** 16.3.5.5.2.4.1

Support for 8 stream MU-MIMO transmission should consider an ABS with 4 TX antennas

**Suggested Remedy**

Please accept the text proposed in contribution C802.16-10_1110 or its latest revision.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote (duplicate of B045):
In favour: 20
Opposed: 10

Reason: The proposal is forcing AMS implementation to have much more complexity (compared to D8) in order to be MLD-ready for more cases. However there is no justification for need of the proposal.

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**                    **Editor's Actions**      b) none needed

**Comment  by:**          Shih-Yuan   Cheng          **Membership Status:**                    **Date:**  8-Sep-2010

**Comment #  B118**                    **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☒  **Satisfied** ☐          **Page** 310    **Line** 28          **Fig/Table#**          **Subclause**  16.2.6.3.1

Clarify the HO Framework phase. The HO initiation of handover phase should be consistency with the sub-clause "16.2.6.3.2 HO decision and initiation" as same as the HO preparation (16.2.6.3.3) and the HO execution (16.2.6.3.4).

**Suggested Remedy**

Adopt text proposal of C802.16m-10/1148 or its latest version.

**GroupResolution**                    **Decision of Group:**   **Agree**

Adopt text proposal of C802.16m-10/1148 or its latest version.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**                    **Editor's Actions**     a) done

**Comment  by:**                    Bin   Chen            **Membership Status:**                    **Date:**  8-Sep-2010

**Comment #  B119**                            **Document under Review:**  P802.16m/D8            **Ballot ID:**  sb_16m

**Comment**      **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 112   **Line** 37        **Fig/Table#**        **Subclause**  16.2.3.9

the A-MAP IE is exposed to all users, which will cause privacy issue and potential security crisis

**Suggested Remedy**

adopt the proposal on contribution C802.16m-10/1123 or its latest version

**GroupResolution**                    **Decision of Group:**   **Principle**

adopt the proposal on contribution C802.16m-10/1123r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; REG-RSP

**Editor's Notes**              **Editor's Actions**     a) done

10/1123r4 done hyunjeong (except remedy #4, #5: PHY book, done HKY)
The tables from this comment are already covered in comment B032, B035 and B036

| **Comment  by:** | Hsien-Wei  Tseng | **Membership Status:** | **Date:** 8-Sep-2010 |
|---|---|---|---|

| **Comment #**  **B120** | **Document under Review:**  **P802.16m/D8** | **Ballot ID:**  **sb_16m** |
|---|---|---|

**Comment**　**Type** Technical　**Part of Dis** ☐ **Satisfied** ☐　**Page** 856　**Line** 46　**Fig/Table#**　**Subclause** 16.5.1.3.1

In order to repect the fact that over the air (OTA) DL/UL phase mismatch exists in Multi-BS MIMO scenario, we propose to add the text of corresponding calibration.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1136 or its latest revision.

**GroupResolution**　　　　　　**Decision of Group:**　**Principle**

Resolved by comment B187:

Adopt the text proposal in C802.16m-10/1136r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**　　　　　**Editor's Actions**　　b) none needed

| **Comment by:** | Hsien-Wei Tseng | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B121**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 884  **Line** 12     **Fig/Table#**     **Subclause** 16.6.3.5.1

Comments on TDD frame structure (16.6.3.5.1)

**Suggested Remedy**

Adopt the contribution C802.16m-10/1180 or its latest revision.

**GroupResolution**                    **Decision of Group:**   **Principle**

on page 884, lines 12, 19, 21, and 23, correct the subscript as indicated:

replace all occurrences of "UCASSB.0, UCASi, UCASMB.0"

Use instead: $UCAS_{SB,0}$, $UCAS_i$, $UCAS_{MB,0}$

Editor: note that the subscripts contain "SB,0, MB,0" rather than the period currently in the text.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.6; Other Relay

**Editor's Notes**                    **Editor's Actions**     a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Yung-Han Chen | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B122**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Editorial     **Part of Dis** ☐ **Satisfied** ☐     **Page** 171   **Line** 65     **Fig/Table#**     **Subclause** 16.2.3.30

The table of AAI-L2-XFER should be in Table 710 instead of 713.

**Suggested Remedy**

Replace "Table 713" with "Table 710".

**GroupResolution**                    **Decision of Group:**   **Agree**

Replace "Table 713" with "Table 710".

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; L2 Transfer message

**Editor's Notes**              **Editor's Actions**     a) done

| **Comment by:** | Yih Guang   Jan | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #  B123**          **Document under Review: P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**  **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 856   **Line** 46    **Fig/Table#**    **Subclause** 16.5.1.3.1

In current text of UL sounding based MULti-BS MIMO calibration, it is under the assumption that the channel reciprocal of UL and DL exist, however, this is not the general case of practical environment. We
propose the calibration procedure to combat this over the air (OTA) channel mismatch problem.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1136 or its latest revision.

**GroupResolution**                          **Decision of Group:**   **Principle**

Resolved by comment B187:

Adopt the text proposal in C802.16m-10/1136r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment  by:**          Yih Guang   Jan                              **Membership Status:**                              **Date:**  8-Sep-2010

**Comment #  B124**                              **Document under Review:  P802.16m/D8**                              **Ballot ID:  sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 722     **Line** 27          **Fig/Table#**          **Subclause** 16.3.7.3.1

Comments on Differential codebook-based feedback mode (16.3.7.3.1)

**Suggested Remedy**

Adopt the contribution C802.16m-10/1181 or its latest revision.

**GroupResolution**                              **Decision of Group:**   **Principle**

Page 722:

On line 28, change as indicated: Number of PRUs assigned to <del>~~minibands~~</del> <ins>subbands</ins> in *FPi*
On line 31, change as indicated: Number of PRUs assigned to <del>~~subbands~~</del> <ins>minibands</ins> in *FPi*

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.7; PHY Uplink physical structure

**Editor's Notes**                              **Editor's Actions**     a) done

| | | |
|---|---|---|
| **Comment by:** Yang Han Lee | **Membership Status:** | **Date:** 8-Sep-2010 |

| | | |
|---|---|---|
| **Comment # B125** | **Document under Review:** P802.16m/D8 | **Ballot ID:** sb_16m |

**Comment**  **Type** Technical   **Part of Dis** ☐  **Satisfied** ☐   **Page** 856  **Line** 46   **Fig/Table#**   **Subclause** 16.5.1.3.1

In this contribution, we proposed a calibration scheme to solve the problem of OTA DL/UL channel mismatch under current sounding based calibration scheme.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1136 or its latest revision.

**GroupResolution**   **Decision of Group:**   **Principle**

Resolved by comment B187:

Adopt the text proposal in C802.16m-10/1136r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**   **Editor's Actions**   b) none needed

| **Comment  by:** | Yang Han  Lee | **Membership Status:** | | **Date:** 8-Sep-2010 |

| **Comment #  B126** | **Document under Review:  P802.16m/D8** | **Ballot ID:  sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 762  **Line** 25    **Fig/Table#**    **Subclause** 16.3.8.2.4.3

Comments on Differential codebook-based feedback mode (16.3.8.2.4.3)

**Suggested Remedy**

Adopt the contribution C802.16m-10/1182 or its latest revision.

**GroupResolution**                    **Decision of Group:**    **Principle**

On page 762 line 25, change as indicated: "where maximum possible D̶ number of dedicated RP codes"

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.8; PHY Uplink control channel

**Editor's Notes**                    **Editor's Actions**    a) done

| **Comment  by:** | Yung-Han  Chen | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #**  **B127**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 180     **Line** 3     **Fig/Table#**     **Subclause** 16.2.3.33

Table reformatting and cleanup on AAI-UL-POWER-ADJ.

**Suggested Remedy**

Please adopt C802.16m-10/1137 or its latest revision.

**GroupResolution**                    **Decision of Group:**   **Agree**

Please adopt C802.16m-10/1137

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; UL_POWER_ADJ

**Editor's Notes**                 **Editor's Actions**     a) done

| | | | | |
|---|---|---|---|---|
| **Comment  by:** | Yung-Han  Chen | **Membership Status:** | | **Date:** 8-Sep-2010 |
| **Comment #  B128** | | **Document under Review:  P802.16m/D8** | | **Ballot ID:  sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 181    **Line** 1    **Fig/Table#**    **Subclause** 16.2.3.34

Table reformatting and cleanup on AAI-UL-PSR-CFG

**Suggested Remedy**

Please adopt C802.16m-10/1138 or its latest revision.

**GroupResolution**                    **Decision of Group:**    **Principle**

Please adopt C802.16m-10/1138r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; UL PSR_Config

**Editor's Notes**                    **Editor's Actions**    a) done

**Comment  by:**                    Hanan  Ahmed                 **Membership Status:**                          **Date:** 8-Sep-2010

**Comment #  B129**                         **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page** 447    **Line** 61          **Fig/Table#**          **Subclause** 16.2.20

After handover, the CLC class shall remain active in the new S-ABS if it meets the CLC limits of the new S-ABS.

**Suggested Remedy**

please refer to the enclosed file

**GroupResolution**                         **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

adds complexity to HO without providing clear benefit

**Group's Notes**

Clause 16.2.20; MAC Co-Located Coexistence

**Editor's Notes**               **Editor's Actions**     b) none needed

| | | | |
|---|---|---|---|
| **Comment  by:** | Hanan   Ahmed | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #  B130**　　　　　　　　**Document under Review:**  **P802.16m/D8**　　　　　**Ballot ID:**  **sb_16m**

**Comment**　　**Type**  Technical　　**Part of Dis**  ☒  **Satisfied**  ☐　　**Page**  148　　**Line**  8　　　　**Fig/Table#**　　**Subclause**  16.2.3.18

On line 8, Table 697 references Table 698 then on line 29,Table 698 references Table 697 (Cyclical references).

**Suggested Remedy**

**GroupResolution**　　　　　　　　**Decision of Group:**　**Principle**

Resolved by Comment #B167:
discuss and adopt contribution C80216m-10_1145r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; CLC-RSP; Co-located Coexistence

**Editor's Notes**　　　　　　　**Editor's Actions**　　　b) none needed

**Comment  by:**          Hanan  Ahmed               **Membership Status:**                    **Date:** 8-Sep-2010

**Comment #  B131**               **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☒ **Satisfied** ☐    **Page** 148    **Line** 20    **Fig/Table#**    **Subclause** 16.2.3.18

If the new S-ABS can not support the CLC class which was active before the handover, it should indicate that to the AMS

**Suggested Remedy**

please refer to the enclosed file

**GroupResolution**                    **Decision of Group:**    **Principle**

Resolved by Comment #B167

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; CLC-RSP; Co-located Coexistence

**Editor's Notes**          **Editor's Actions**    b) none needed

**Comment  by:**              James   Carlo                    **Membership Status:**                        **Date:** 8-Sep-2010

**Comment #  B132**                    **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**        **Type** General        **Part of Dis** ☒  **Satisfied** ☐        **Page** 40        **Line**              **Fig/Table#**              **Subclause** 6.3.27

A) I approve of the comment resolution to my prior comment #212.
B) 1)Section 6.3.27 is titled "Emergency service and Public Alert". After four uses of the words "Emergency Service", from here on out, the words "Public Alert" are used. There is no description of what is different between "Emergency Service" and "Public Alert"..
2)Public Alert is trademarked and there is also a Public Alert LOGO. The NOAA uses this designation for radios that meet a standard for receiving radio broadcasts (CEA-2009-A). Just look up "Public Alert" and you will find the references and Trademark.

**Suggested Remedy**

I would suggest: Leave it as "Emergency Service" or rename to "Public Service" or "Emergency Traffic". Add to the definitions and you can abreviate if desired. Make sure the term is not trademarked.
Jim

**GroupResolution**                    **Decision of Group:**   **Agree**

adopt C802.16m-10/1263

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 6; MAINTENANCE

**Editor's Notes**              **Editor's Actions**      a) done

**Comment by:**        Ronald   Mao              **Membership Status:**              **Date:** 8-Sep-2010

**Comment #  B133**                    **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**        **Type** Technical        **Part of Dis** ☒  **Satisfied** ☐        **Page** 588      **Line** 17        **Fig/Table#**              **Subclause** 16.3.5.5.12

The Network Configuration TLV should include a mixed ABS network for legacy ASN support

**Suggested Remedy**

Adopt the proposal in the contribution C802.16m-10/1184 or its latest revision.

**GroupResolution**                    **Decision of Group:**    **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 3-2-0

It is unclear whether the scenario being described needs to be addressed in this specification.

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**                    **Editor's Actions**      b) none needed

**Comment_by:**          Nader  Zein                **Membership Status:**                **Date:** 8-Sep-2010

**Comment #  B134**                    **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page** 864   **Line** 21     **Fig/Table#**          **Subclause** 16.6.2.6

Currently, the relay section (16.6) in Draft D8 specifies no level of coordination between ARS (through ABS) for distributed scheduling. This would lead to significant interference across ARS and AMS during distributed scheduling by ARS on access links in the absence of any coordination. This would bring down the efficiency of distributed scheduling and hence system performance both in terms of throughput and coverage considerably.

**Suggested Remedy**

Please adopt the proposed text in the latest revision of contribution C802.16m-10/1194.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote:
In favour: 7
Opposed: 6

There is no mechanism for the ABS to signal that it is constraining ARS resources.  Therefore, this situation cannot occur, therefore this is unnecessary.

**Group's Notes**
Clause 16.6; Other Relay

**Editor's Notes**          **Editor's Actions**     b) none needed

| | | | |
|---|---|---|---|
| **Comment by:** | Roshni  Srinivasan | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #**  **B135**                    **Document under Review:**  **P802.16m/D8**              **Ballot ID:**  **sb_16m**

**Comment**       **Type** Editorial       **Part of Dis** ☐  **Satisfied** ☐       **Page**  468    **Line**  1          **Fig/Table#**              **Subclause**  16.3

Incorrect title for subclause

**Suggested Remedy**

Change "WirelessMAN OFDMA R1 ReferencePhysical layer" to "Physical layer"

**GroupResolution**                    **Decision of Group:**   **Agree**

Change "WirelessMAN OFDMA R1 ReferencePhysical layer" to "Physical layer"

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3; PHY General

**Editor's Notes**              **Editor's Actions**      a) done

**Comment by:**          Roshni  Srinivasan          **Membership Status:**                    **Date:** 8-Sep-2010

**Comment #  B136**                    **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**          **Type** Editorial     **Part of Dis** ☐  **Satisfied** ☐     **Page** 567   **Line** 10          **Fig/Table#**          **Subclause** 16.3.5.2.1

Add a period at the end of the sentence

**Suggested Remedy**

Change 'and data transmission" to "and data transmission."

**GroupResolution**                    **Decision of Group:**   **Agree**

Change 'and data transmission" to "and data transmission."

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**          **Editor's Actions**     a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Roshni Srinivasan | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B137**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Editorial     **Part of Dis** ☐ **Satisfied** ☐     **Page** 567     **Line** 43     **Fig/Table#**     **Subclause** 16.3.5.2.1

Change to normative text.

**Suggested Remedy**

Change 'This value is 6." to "N_Rep, P-SFH shall be set to 6."

**GroupResolution**                              **Decision of Group:**   **Agree**

Change 'This value is 6." to "N_Rep, P-SFH shall be set to 6."

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**               **Editor's Actions**     a) done

| **Comment  by:** | Roshni  Srinivasan | **Membership Status:** | | **Date:** 8-Sep-2010 |

**Comment #**  **B138**                    **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**      **Type** Editorial      **Part of Dis** ☐ **Satisfied** ☐      **Page** 567   **Line** 46      **Fig/Table#**      **Subclause** 16.3.5.2.1

Change to normative text.

**Suggested Remedy**

Change 'This value is 26." to "Size_ P-SFH shall be set to 26."

**GroupResolution**                **Decision of Group:**   **Agree**

Change 'This value is 26." to "Size_ P-SFH shall be set to 26."

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**          **Editor's Actions**     a) done

**Comment by:** Roshni Srinivasan  **Membership Status:**  **Date:** 8-Sep-2010

**Comment #** **B139**  **Document under Review:** **P802.16m/D8**  **Ballot ID:** **sb_16m**

**Comment**  **Type** Editorial  **Part of Dis** ☐  **Satisfied** ☐  **Page** 568  **Line** 6  **Fig/Table#**  **Subclause** 16.3.5.2.1.1

Change to normative text.

**Suggested Remedy**

Change " are allocated for P-SFH transmission" to " shall be allocated for P-SFH transmission".

**GroupResolution**  **Decision of Group:** **Agree**

Change " are allocated for P-SFH transmission" to " shall be allocated for P-SFH transmission".

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**  **Editor's Actions**  a) done

**Comment  by:**                Roshni   Srinivasan                **Membership Status:**                        **Date:**  8-Sep-2010

**Comment #  B140**                        **Document under Review:  P802.16m/D8**                **Ballot ID:   sb_16m**

**Comment**        **Type** Editorial        **Part of Dis** ☐  **Satisfied** ☐        **Page**  568    **Line**  8        **Fig/Table#**        **Subclause**  16.3.5.2.1.1

Change to normative text and add a period at the end of the sentence after '4'.

**Suggested Remedy**

Change 'is 4" to "shall be set to 4."

**GroupResolution**                        **Decision of Group:**    **Agree**

Change 'is 4" to "shall be set to 4."

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**                **Editor's Actions**        a) done

| **Comment by:** | Roshni Srinivasan | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B141**     **Document under Review:** **P802.16m/D8**     **Ballot ID:** **sb_16m**

**Comment**     **Type** Editorial     **Part of Dis** ☐     **Satisfied** ☐     **Page** 11     **Line** 23     **Fig/Table#**     **Subclause** 4

Add 'SP' to the list of abbreviations

**Suggested Remedy**

Insert 'SP' with description 'S-SFH sub-packet' to the list of abbreviations.

**GroupResolution**     **Decision of Group:** **Agree**

Insert 'SP' with description 'S-SFH sub-packet' to the list of abbreviations.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 4; General

**Editor's Notes**     **Editor's Actions**     a) done

**Comment by:**      Roshni  Srinivasan              **Membership Status:**              **Date:** 8-Sep-2010

**Comment #  B142**              **Document under Review:** **P802.16m/D8**              **Ballot ID:**  **sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 568    **Line** 48      **Fig/Table#**      **Subclause** 16.3.5.2.1.2

The following text needs to be cleaned up. "When S-SFH SPx IE is changed, ABS may additionally transmit the changed S-SFH SPx IE in superframes only carrying P-SFH during the period where the S-SFH applying offset is set to 1, as illustrated in Figure 521. Though the transmission frequency of the changed S-SFH SPx IE is increased due to one or multiple additional transmissions, such additional transmissions do not affect the transmissions of changed S-SFH SPx IE determined by the scheduling periodicity and the S-SFH applying offset." 'Applying offset' is a very awkward name for an indicator and all instances of this term should be replaced with a better term.

**Suggested Remedy**

Remedy 1: Change "When S-SFH SPx IE is changed, ABS may additionally transmit the changed S-SFH SPx IE in superframes only carrying P-SFH during the period where the S-SFH applying offset is set to 1, as illustrated in Figure 521. Though the transmission frequency of the changed S-SFH SPx IE is increased due to one or multiple additional transmissions, such additional transmissions do not affect the transmissions of changed S-SFH SPx IE determined by the scheduling periodicity and the S-SFH applying offset."
to
"When the contents of any S-SFH SPx IE change, the ABS may transmit the changed S-SFH SPx IE in superframes that carry the P-SFH only as illustrated in Figure 521. Such additional transmissions may only be scheduled in periods the "Additional SP Transmission Flag" is set to 1. These transmissions shall not affect the scheduling periodicity of the changed SPx IE."
Remedy 2: Change all occurrences of 'S-SFH applying offset' to "Additional SP Transmission Flag"

**GroupResolution**              **Decision of Group:**   **Principle**

Resolved by comment B189:

Adopt contribution C802.16m-10/1092r2

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**              **Editor's Actions**      b) none needed

| | | | |
|---|---|---|---|
| **Comment by:** | Roshni   Srinivasan | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B143**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**          **Type** Editorial          **Part of Dis** ☐  **Satisfied** ☐          **Page** 579     **Line** 47          **Fig/Table#**          **Subclause** 16.3.5.3.2.4

Clarify what is meant by A-MAP IE

**Suggested Remedy**

Change "The A-A-MAP IE is randomized by a sequence generated by a PRBS generator." to "The 40 bits of information contained in the A-A-MAP IE are randomized by a sequence generated by a PRBS generator."

**GroupResolution**                    **Decision of Group:**   **Agree**

Change "The A-A-MAP IE is randomized by a sequence generated by a PRBS generator." to "The 40 bits of information contained in the A-A-MAP IE are randomized by a sequence generated by a PRBS generator."

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**                    **Editor's Actions**     a) done

| **Comment by:** | Roshni  Srinivasan | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment # B144**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Editorial     **Part of Dis** ☐ **Satisfied** ☐     **Page** 579     **Line** 56     **Fig/Table#**     **Subclause** 16.3.5.3.2.4

Clarify what is meant by A-MAP IE

**Suggested Remedy**

Change " ...based on the randomized contents of the assignment A-MAP IE." to "...based on the randomized sequence of information bits of the assignment A-MAP IE."

**GroupResolution**                    **Decision of Group:**   **Agree**

Change " ...based on the randomized contents of the assignment A-MAP IE." to "...based on the randomized sequence of information bits of the assignment A-MAP IE."

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**              **Editor's Actions**     a) done

| **Comment  by:** | Roshni  Srinivasan | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #  B145**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**    **Type** Editorial    **Part of Dis** ☐ **Satisfied** ☐    **Page** 579   **Line** 60    **Fig/Table#**    **Subclause** 16.3.5.3.2.4

Clarify what is meant by A-MAP IE

**Suggested Remedy**

Change "The masked CRC is then appended to the assignment A-MAP IE, resulting"
to
"The masked CRC is then appended to the randomized sequence of information bits of the assignment A-MAP IE, resulting"

**GroupResolution**          **Decision of Group:**  **Agree**

Change "The masked CRC is then appended to the assignment A-MAP IE, resulting"
to
"The masked CRC is then appended to the randomized sequence of information bits of the assignment A-MAP IE, resulting"

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**          **Editor's Actions**    a) done

**Comment  by:**          Roshni   Srinivasan          **Membership Status:**                    **Date:**  8-Sep-2010

**Comment #  B146**                    **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**          **Type** Editorial          **Part of Dis** ☐  **Satisfied** ☐          **Page** 580          **Line** 6          **Fig/Table#**          **Subclause** 16.3.5.3.2.4

Change to normative text

**Suggested Remedy**

Change "The set of code rates is (1/2, 1/4) or (1/2, 1/8) and is explicitly signaled in the S-SFH." to "The set of code rates shall be either (1/2, 1/4) or (1/2, 1/8) and is explicitly signaled in the S-SFH."

**GroupResolution**                    **Decision of Group:**   **Agree**

Change "The set of code rates is (1/2, 1/4) or (1/2, 1/8) and is explicitly signaled in the S-SFH." to "The set of code rates shall be either (1/2, 1/4) or (1/2, 1/8) and is explicitly signaled in the S-SFH."

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**                    **Editor's Actions**     a) done

**Comment  by:**        Hyunjeong  Kang              **Membership Status:**              **Date:** 8-Sep-2010

**Comment #**  **B147**                    **Document under Review:**  **P802.16m/D8**              **Ballot ID:**  **sb_16m**

**Comment**        **Type**  Technical        **Part of Dis** ☐  **Satisfied** ☐        **Page**  338    **Line**  31        **Fig/Table#**              **Subclause**  16.2.8.2.8

PHY level controls (MIMO/Multi-BS MIMO/Power Control/FFR/CINR report) should be clarified for multi-carrier operation. UL channel operation and DL CINR report operation for CA (Carrier Aggregation) with partially configured secondary carrier are already defined. However, PHY level controls using MAC control message or MAC signaling header for CA with fully configured carriers are not clear. The problem is that there is no way to feedback these MAC control messages and signaling headers through the proper active carrier which ABS wants because all the unicast MAC control messages relative to multicarrier operations shall be sent from/to the AMS through its primary carrier.

So, we propose to handle PHY level controls per carrier unlike MAC state, mobility and context of an AMS that are managed and controlled by an ABS through the primary carrier.

**Suggested Remedy**

Discuss and adopt a contribution IEEE 802.16m-10/1176 or later version

**GroupResolution**                    **Decision of Group:**    **Principle**

Resolved by Comment #B10102:
Adopt the proposed text in C802.16m-10/1155r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**                    **Editor's Actions**        b) none needed

| **Comment by:** | Hyunjeong  Kang | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B148**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 365     **Line** 1     **Fig/Table#**     **Subclause** 16.2.12

Current 16m/D8 has defined the QoS definition in 16m system, but the operation of QoS, service flow and the management of service flow are incomplete.

**Suggested Remedy**

Discuss and adopt a contribution IEEE 802.16m-10/1174 or later version

**GroupResolution**          **Decision of Group:** **Principle**

Resolved by comment #B149:

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.12; MAC QoS

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment by:**     Hyunjeong  Kang                 **Membership Status:**                      **Date:** 8-Sep-2010

**Comment #  B149**                 **Document under Review:  P802.16m/D8**            **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 365   **Line** 1     **Fig/Table#**        **Subclause** 16.2.12

Current 16m/D8 has defined the QoS definition in 16m system, but the operation of QoS, service flow and the management of service flow are incomplete.

**Suggested Remedy**

Discuss and adopt a contribution IEEE 802.16m-10/1173 or later version

**GroupResolution**                 **Decision of Group:**  **Agree**

  adopt a contribution IEEE 802.16m-10/1173

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.12; MAC QoS

**Editor's Notes**                 **Editor's Actions**     a) done

**Comment  by:**     Hyunjeong  Kang                **Membership Status:**             **Date:** 8-Sep-2010

**Comment #  B150**              **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**      **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐      **Page** 348   **Line** 60      **Fig/Table#**          **Subclause** 16.2.8.2.11.2

Current 16m/D8 allows a change of a primary carrier with a carrier which has not been used for transmission before. When an AMS fails to change its primary carrier with the carrier, the way to detect the failure at the ABS is to use an AAI-CM-IND message. But, there should be more clear description how the ABS detects the failure of primary carrier change and which action it takes for the failure.

**Suggested Remedy**

Discuss and adopt a contribution IEEE 802.16m-10/1175 or later version

**GroupResolution**               **Decision of Group:**  **Principle**

adopt contribution IEEE 802.16m-10/1175r1

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.8; MAC Multicarrier

**Editor's Notes**          **Editor's Actions**     a) done

**Comment  by:**         Hyunjeong  Kang                 **Membership Status:**                    **Date:** 8-Sep-2010

**Comment #  B151**                    **Document under Review:  P802.16m/D8**           **Ballot ID:  sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐ **Satisfied** ☐      **Page** 91      **Line** 5      **Fig/Table#**      **Subclause** 16.2.3.2

The Reentry Process Optimization field in AAI-RNG-RSP message and the usage of the field are not clearly defined in current 16m/D8. For example, Bit #2 in the field is about omitting REG-REQ/RSP transaction and higher layer protocol triggering for IP address refresh. This bit does not cover a case where REG-REQ/RSP transaction is required but IP address refresh is not performed. In addition, Bit #3 indicates Full service and operational state (all static and dynamic context) transfer or sharing and the bit is used for reentry in handover as well as in idle mode. Static context and dynamic context are maintained in handover, but static context only is kept in idle mode.

**Suggested Remedy**

Discuss and adopt a contribution IEEE 802.16m-10/1177 or later version

**GroupResolution**                    **Decision of Group:**   **Principle**

Adopt a contribution IEEE 802.16m-10/1177r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; RNG-RSP

**Editor's Notes**            **Editor's Actions**      a) done

The tables from this comment are already covered in comment B032

**Comment  by:**            Lei   Wang                    **Membership Status:**                    **Date:** 8-Sep-2010

**Comment #  B152**                **Document under Review:**  **P802.16m/D8**              **Ballot ID:**  **sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☒ **Satisfied** ☐      **Page** 330    **Line** 61      **Fig/Table#**      **Subclause** 16.2.7

I disagree with the comment resolution given to comment A033 in 802.16-10/0045r2.

The sentence in line 61 on page 330 raises a very basic issue for 16m UL PA allocations, i.e., a 16m PA allocation is per-connection, or per flow. We all understand that the PA is designed for the connections with periodic traffic patterns with relatively fixed payload sizes. The traffic patterns are application specific, i.e., service flow specific. Therefore, there are good reasons for the UL PA allocations for some specific service flows.

However, there is critical problem with UL PA allocation, i.e., the current 16m UL PA allocation mechanism does not support per-connection allocation, as there is no indications to tell the AMS which connection or flow a UL PA allocation is intended for.

In addition, although there are good reasons to have UL PA allocations for certain flows, it may not be a good idea to remove all the flexibility of the AMS to use UL PA allocations for other flows, e.g., use the leftover resources; or transmit other urgent data for control or other services, e.g., emergency services.

Therefore, we would propose:

a) to fix the problem of lack of indications of the intended flow info for UL PA allocations; and

b) to add a clarification allowing the AMS to use the UL PA allocations for other flows in some cases, e.g. use the leftover resources, or transmit other urgent data for other flows.

In this way, we can maximize the effectiveness of UL PA allocations while also keeping the flexibility of AMS's usage of the given UL allocations.

**Suggested Remedy**

discuss and adopt contribution C802.16m-10/0098r4 or its latest version.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Does not consider VoIP via A-MAP IE.

**Group's Notes**

Clause 16.2.7; MAC Persistent Scheduling

**Editor's Notes**              **Editor's Actions**     b) none needed

**Comment by:**          Lei  Wang                **Membership Status:**                **Date:** 8-Sep-2010

**Comment #  B153**                **Document under Review:  P802.16m/D8**                **Ballot ID:  sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☒  **Satisfied** ☐    **Page** 570    **Line** 1    **Fig/Table#**    **Subclause** 16.3.5.2.2

I disagree with the comment resolution given to comment A034 in 802.16-10/0045r2. The long TTI burst vs. the use of assignment A-MAP IE still needs to be clarified.

Based on the "reason" given to the comment A034, there are two different MAP vs. Data burst relevance in DL:

1. the long-TTI DL data burst starts the same subframe as its DL A-MAP IE is transmitted, when the DL A-MAP IE is transmitted in the first subframe of a long TTI burst;

2. the long-TTI DL data burst starts in the first DL subframe of next frame of the frame where the DL A-MAP IE is transmitted, if the DL A-MAP IE is transmitted not in the first subframe of the long TTI.

However, in the DL A-MAP / data burst relevance description, i.e., the paragraph in line 1 on page 570, the long-TTI is not mentioned at all.

In addition, how about FDD DL long TTI? It should not always be the next frame.

We suggest adding clarifications for the long TTI burst's A-MAP relevance for DL, and leave the reference to the HARQ subsection for UL long TTI A-MAP relevace..

**Suggested Remedy**

change the paragraph in line 1 on page 570 as follows:

A-MAP regions shall be present in all DL AAI subframes. When default TTI is used, DL data allocations corresponding to an A-MAP region can occupy resources in any frequency partition within the AAI subframe where the A-MAP region is located. <ins> When long TTI is used, the DL data allocations corresponding to an A-MAP region in the first subframe of a DL long TTI can occupy resources in any frequency partition starting from the AAI subframe where the A-MAP region is located; while the DL data allocations corresponding to an A-MAP region not in the first subframe of a DL long TTI can occupy resources in any frequency partition starting from the first DLsubframe of next DL long TTI. </ins> UL data allocations corresponding to an A-MAP region can occupy resources in any frequency partition within the UL AAI subframe according to A-MAP relevance and HARQ timing defined in 16.2.14.2.2.

**GroupResolution**                **Decision of Group:**   **Principle**

Modify as follows:

"A-MAP regions shall be present in all DL AAI subframes. <del>When default TTI is used,</del> DL <ins>and UL</ins> data allocations corresponding to an A-MAP region can occupy resources in any frequency partition within the AAI subframe <ins>or the AAI frame according to A-MAP relevance and HARQ timing defined in 16.2.14.2.2.</ins> <del>where the A-MAP region is located. UL data allocations corresponding to an A-MAP region can occupy resources in any frequency partition within the UL AAI subframe according to A-MAP relevance and HARQ timing defined in 16.2.14.2.2.</del>"

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**2010/10/06**                                              **IEEE 802.16-10/0047r4**

**Comment  by:**                  Lei   Wang          **Membership Status:**          **Date:**  8-Sep-2010

**Comment #  B154**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☒ **Satisfied** ☐      **Page** 512      **Line** 63      **Fig/Table#**      **Subclause** 16.3.4.3.1

Not satisfied with the comment resolution given to comment A035 in 802.16-10/0045r2.
Based on the paragraph in line 63 on page 480 and Table 837, for FPi (i>0, FPCT !=2), only one value for DCASi is explicitly signaled for all i > 0.
Therefore, It is misleading to use the notation DCASi with i as subscript in Table 837, as comparing to all the other parameter names with subscript. Note that only one value for DCASi is in Table 837, not multiple.

**Suggested Remedy**

Make the following changes:
1. in line 63 page 512, before "in the SFH....", insert the text "called DCASI,"
2. in line 55, page 584, Table 836, change "DCASi" to "DCASI"

**GroupResolution**                  **Decision of Group:**   **Principle**

Adopt the suggested remedies of contribution IEEE C802.16m-10/1258r1

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.3.4; PHY Downlink physical structure

| **Comment by:** | Lei Wang | **Membership Status:** | **Date:** 8-Sep-2010 |

| **Comment #** **B155** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

| **Comment** | **Type** Technical | **Part of Dis** ☒ **Satisfied** ☐ | **Page** 603 | **Line** 54 | **Fig/Table#** | **Subclause** 16.3.5.5.2.4.1 |

Not satisfied with the comment resolution given to comment A036 in 802.16-10/0045r2 about allocation granularity in the 20MHz system bandwidth.

Again, as pointed out by comment A036 in 802.16-10/0045r2, there were some serious doubts about the correctness of the original analysis, e.g., conclusions based on 1/6 < 31/1422.

In addition, we think Sacrificing the allocation granularity seems not a good design choice, particularly at steps as big as 8 LRUs. Even with code-matching schemes, the offset of the required size to the nearest allowed S value can be up to 4 LRUs. This makes the ratio of the offset to the assigned size is greater than majority of the code steps based on the nominal MCS table given in Table 931, on page 776 in 16m/D8.

We would recommend reconsidering the RI field encoding issue, particularly for the 20MHz system bandwidth, instead of sacrificing the allocation granularity, looking for some other alternatives, e.g., change the RI field from 11 bits to 12 bits by using the 1 reserved bit, and/or consider the constraints of the allocations to remove those ones that do not need to be signaled by the assignment A-MAP IEs, e.g., the control channel occupied resources, and/or allocations spanning over multiple frequency partitions, etc.

**Suggested Remedy**

discuss and adopt contribution C802.16m-10/1195 or its latest version.

**GroupResolution**                          **Decision of Group:** **Disagree**

**Reason for Group's Decision/Resolution**

Vote:
In favour: 2
Opposed: 2

Want to keep the reserved bit. Incomplete remedy (only considers one IE).

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**                **Editor's Actions**      b) none needed

**Comment by:**　　　　　　　Lei　Wang　　　　　　**Membership Status:**　　　　　　　　**Date:** 8-Sep-2010

**Comment #  B156**　　　　　　　**Document under Review:  P802.16m/D8**　　　　　**Ballot ID:  sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☒  **Satisfied** ☐　　**Page** 464　**Line** 47　　**Fig/Table#**　　　**Subclause** 16.2.26.1

Not satisfied with the comment resolution given to comment A038 in 802.16-10/0045r2. Understand the given reason about the MAC signaling header vs. the security, however, the identified issues by comment A038 needs to be resolved and there should be alternative solution that does not have to use MAC signaling heasder.

There are multiple questions/issues around the usage of AAI_RNG-RSP message in subsection 16.2.26.1, e.g.,

1. is the 1-bit "Ranging Request bit" field the only information needed to be included in the AAI_RNG-RSP for this coverage loss detection usage? if so, why do we need such a complicated message to carry 1-bit information? if not, then what are the other field that are needed?

2. the unsolicited AAI_RNG-RSP usage is not specified in the definition of AAI_RNG-RSP in section 16.2.3.2, where it actually says AAI_RNG-RSP shall be sent as a response to AAI_RNG-REQ;

3. when the ABS invites the AMS to do periodic ranging, the ABS actually knows the AMS's ID. If the ABS can keep the knowledge of the AMS's ID info during this coverage loss detection required periodic ranging process, then the steps for AMS to send its ID info after a successful periodic ranging can be saved.

**Suggested Remedy**

discuss and adopt contribution C802.16m-10/0968r1 or its latest version.

**GroupResolution**　　　　　　　　　**Decision of Group:**  **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 0, 6, 0
Proposed scheme increases system complexity too much to obtain small gain for rare case.

**Group's Notes**

Clause 16.2.26; MAC Coverage Loss Detection and Recovery

**Editor's Notes**　　　　　　　**Editor's Actions**　　b) none needed

| **Comment by:** | Lei Wang | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B157** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m**

**Comment** | **Type** Technical | **Part of Dis** ☐ **Satisfied** ☐ | **Page** 465 | **Line** 1 | **Fig/Table#** | **Subclause** 16.2.26.2

The paragraph in line 1 page 465 contains unnecessary and confusing bracketed text. Suggest removing them.

**Suggested Remedy**

Change the paragraph in line 1 page 465 as follows:
In case of a HO, the ABS shall stop the coverage loss detection procedure <del> (above, in this paragraph )</del> for the AMS at the frame specified by Disconnect Time in the AAI-HO-CMD message. Once the S-ABS receives a MAC control message (i.e., bandwidth request) from the AMS that is assumed to handover to a neighbor ABS (i.e., T-ABS), the S-ABS shall initiate the coverage loss detection procedure <del> (above, in this paragraph )</del> by starting active_ABS_timer for the AMS.

**GroupResolution** | **Decision of Group:** **Agree**

Change the paragraph in line 1 page 465 as follows:
In case of a HO, the ABS shall stop the coverage loss detection procedure <del> (above, in this paragraph )</del> for the AMS at the frame specified by Disconnect Time in the AAI-HO-CMD message. Once the S-ABS receives a MAC control message (i.e., bandwidth request) from the AMS that is assumed to handover to a neighbor ABS (i.e., T-ABS), the S-ABS shall initiate the coverage loss detection procedure <del> (above, in this paragraph )</del> by starting active_ABS_timer for the AMS.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.26; MAC Coverage Loss Detection and Recovery

**Editor's Notes** | **Editor's Actions** a) done

| **Comment by:** | Lei  Wang | **Membership Status:** | **Date:** 8-Sep-2010 |
|---|---|---|---|

| **Comment #** **B158** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |
|---|---|---|

**Comment**   **Type** Technical   **Part of Dis** ☒ **Satisfied** ☐   **Page** 423   **Line** 3   **Fig/Table#**   **Subclause** 16.2.16

Not satisfied with the comment resolution given to comment A041 in 802.16-10/0045r2. The following is the comment resolution copied from the database:

"Periodic Ranging Timer is equivalent to T4 timer in IEEE802.16-2009. It implies that Periodic Ranging Timer is running in MAC level. Therefore, suggested remedy is wrong in some sense and may result in performance degradation if applied. How to handle Periodic Ranging in AMS is implementation-scope."

Note that how to handle periodic ranging in AMS is not just in implementation-scope, as it is about the air link quality maintenance and it is a protocol issue, i.e., in which condition the air link is declared as "UP" or "operational" and how to maintain the air link in "UP" or "operational" status. In addition, why the suggested remedy is wrong? how can it cause performance degradation?

The comment A041 is re-submitted below:

Based on the current periodic ranging design, when the AMS has active UL data communication and the UL is nicely synchronized with the ABS, the ABS does not need to send any UL Tx parameter adjustments to the AMS. However, in this case, the periodic ranging timer is still running at the AMS, then when timeouts, it will trigger the AMS to conduct periodic ranging, which is totally not necessary. Due to the mandatory HARQ for UL unicast data burst, the ACK to the UL bursts of the AMS is certainly a good indication of UL condition. So, we suggest the AMS reset the Periodic Ranging timer upon receiving a HARQ ACK for the AMS's UL transmission.

**Suggested Remedy**

Insert the following new bullet after line 3 on page 423:
e) Upon receiving a HARQ ACK for an UL data burst of the AMS, the AMS shall reset the Periodic Ranging timer.

**GroupResolution**                    **Decision of Group:**  **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 0, 2, 0
In 16m, periodic RNG is transmitted whenever the T3 timer is expired without respect to the data traffic transmission.

**Group's Notes**

Clause 16.2.16; MAC Periodic Ranging

**Editor's Notes**          **Editor's Actions**    b) none needed

| | | | |
|---|---|---|---|
| **Comment by:** | Lei  Wang | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B159**              **Document under Review:** **P802.16m/D8**              **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☒ **Satisfied** ☐    **Page** 423    **Line** 3    **Fig/Table#**    **Subclause** 16.2.16

Not satisfied with the comment resolution given to comment A042 in 802.16-10/0045r2. The following is the comment resolution copied from the database:

"Current coverlage loss detection procedure in ABS is pretty enough. All AMS do not need to transmit AAI_RNG-CFM message. It's overhead for AMS-initiated periodic ranging as well as ABS-initiated periodic ranging without ranigng request bit."

Note that the comment A042 did not comment on that the coverage loss detection is not enough, instead, it commented on the disconnection between the two air link status monitoring and maintenance procedures (i.e., coverage loss detection and periodic ranging). Plus, it was about some unnecessary triggers to the coverage loss detection procedure.

Also, what's ABS-initiated periodic ranging without ranging request bit?

Therefore, the comment A042 is re-sumitted based on 16m/D8 as follows:

In 16m/D8, there are two mechanisms that are related to air link status monitoring and maintenance, periodic ranging and coverage loss detection. Periodic ranging is used for maintain the UL synchronization, and a periodic ranging timer is maintained at AMS. Coverage loss detection is used for the ABS to monitor the status of the AMS, and a timer is maintain at the ABS for each active AMS. Those two mechanisms are disconnected and could have one running right after another, because the periodic ranging process does not provide the ABS the AMS's identification so the ABS does not know who have just successfully done a periodic ranging. Some minor changes can build the connection between those two air link status monitoring/maintenance mechanisms for system performance improvement. For example, after a successful periodic ranging, the ABS provides an UL allocation through CDMA allocation IE for the AMS to transmit an AAI_RNG-CFM message to the ABS, so that the ABS knows who has just successfully completed periodic ranging process. In this way, the ABS can reset the active_ABS_timer for the coverage loss detection, then unnecessary triggers to the coverage loss detection procedure can be avoided.

**Suggested Remedy**

Insert the following new bullet after line 3 on page 423:

f) After responding to a periodic ranging request with a ranging status of "success" in the AAI_RNG-ACK message, the ABS shall provide a unicast UL allocation through a CDMA allocation A-MAP assignment IE to the AMS who sent the periodic ranging request. The AMS shall send its STID information in an AAI_RNG-CFM message to the ABS.

**GroupResolution**              **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 1, 2, 0
Most periodic ranging does not trigger UL allocation. Proposed text increases overhead frequently for coverage loss detection, which is rarely happened.

**Group's Notes**

# Clause 16.2.16; MAC Periodic Ranging

**Editor's Notes**        **Editor's Actions**     b) none needed

**Comment  by:**            Lei   Wang              **Membership Status:**              **Date:**  8-Sep-2010

**Comment #  B160**              **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ⊠  **Satisfied** ☐     **Page** 629   **Line** 39     **Fig/Table#**          **Subclause** 16.3.5.5.2.4.7

Not satisfied with the comment resolution given to comment A045 in 802.16-10/0045r2.

All the reply commenters and also "disagree" reason given in the comment resolution said almost the same thing, i.e., without knowing STID, how does the ABS know how much bandwidth the AMS is requesting. Well, as clearly stated in comment A045, depending on the traffic load, the ABS does not have to just allocate the size for the AMS to send a BR header. in other words, the 3-step BR procedure shall not only apply to the BR with a short message. Note that in 16e where there is no such short message thing for the OFDMA-system contentioned-based BR reqeust, BR procedure can be 3-step or 5-step, although it is not clearly named as 3-step /5-step, because it did not mandate the allocation size for the CDMA-allocation-IE.

Again, the key point of this comment is not to limit the 3-step BR only to the BR with short message.

Here's a re-submission of comment A045:

When using a CDMA allocation IE to allocate UL resource in response to a received contention-based bandwidth request, the allocation size don't have to be just for a BW REQ header. Depending on the traffic load, the ABS may allocate different sizes of data bursts, i.e., don't have to be a fixed size for sending BW REQ header. Therefore, the Isizeoffset is needed.


**Suggested Remedy**

make the following changes:

1. insert a new row in line 39 page 629 in Table 855 as follows:

Syntax Size (bits) Notes

<ins> ISizeOffset 5 Offset used to compute burst size index </ins>

2. in line 41 page 629, change the size field of the "Reserved" row from 20 to 15.


**GroupResolution**                          **Decision of Group:**   **Disagree**


**Reason for Group's Decision/Resolution**

unanimous rejection (one abstain)


Still not clear how the ABS determines BW size to be assigned to a specific user and/or connection as a response to the BR code received

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**               **Editor's Actions**     b) none needed

| **Comment by:** | Lei  Wang | **Membership Status:** | **Date:** 8-Sep-2010 |

| **Comment #  B161** | **Document under Review:  P802.16m/D8** | **Ballot ID:  sb_16m** |

**Comment**   **Type** Technical   **Part of Dis** ☒ **Satisfied** ☐   **Page** 235   **Line** 41   **Fig/Table#**   **Subclause** 16.2.3.51

Not satisfied with the comment resolution given to comment A049 in 802.16-10/0045r2.
Still don't think it properly represents the MC capability by having the DL/UL indicator for a carrier group, instead, the MC capability should be represented by the carrier groups that contains carriers that can be supported simultaneously, each with its own DL/UL indicator. That is, the "DL/UL indicator" should be per carrier attribute, not per carrier group in the AAI_MC-REQ message.
In addition, the current DL/UL indicator does not cover all the cases, e.g., in FDD system, there will be UL carrier. However, the current DL/UL indicator cannot tell UL only carrier.

**Suggested Remedy**

Make the following changes in Table 748 on page 235:
1. move the row of "DL/UL indicator" to inside the "j" loop.
2. change the size of "DL/UL indicator" to 2;
3. replace the Notes field of "DL/UL indicator" by the follows:
Indicates whether the AMS supports the carrier in DL and/or UL transmission.
0b00: reserved
0b01: UL only
0b10: DL only
0b11: both DL and UL

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

vote: 1, 3, 0:
Is a carrier group possible to consist of only UL carriers? Otherwise, no change is required.

**Group's Notes**
Clause 16.2.3; MAC Control Messages; MC-REQ; Multicarrier

**Editor's Notes**             **Editor's Actions**    b) none needed

**Comment by:** Lei Wang     **Membership Status:**     **Date:** 8-Sep-2010

**Comment #** **B162**     **Document under Review:** **P802.16m/D8**     **Ballot ID:** **sb_16m**

**Comment**    **Type** Editorial    **Part of Dis** ☒   **Satisfied** ☐    **Page** 345    **Line** 42    **Fig/Table#**    **Subclause** 16.2.8.2.10.2

We are writing 16m as an amendment to the baseline 802.16 standard. Equation number (5) is used by the baseline document, see page 597 in 802.16-2009. So, it shall not be duplicately used here.

**Suggested Remedy**

Change the equation number in line 42 on page 345 to a valid equation number based on both baseline doc and 16m doc; and then throughout the 16m spec, change the references to the equation accordingly.

**GroupResolution**       **Decision of Group:** **Agree**

Change the equation number in line 42 on page 345 to a valid equation number based on both baseline doc and 16m doc; and then throughout the 16m spec, change the references to the equation accordingly.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**       **Editor's Actions**    a) done

| **Comment by:** | Lei  Wang | **Membership Status:** | **Date:** 8-Sep-2010 |

| **Comment #** **B163** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☒ **Satisfied** ☐    **Page** 348  **Line** 60    **Fig/Table#**    **Subclause** 16.2.8.2.11.2

I don't agree with the reasons given to the comment resolution to comment A053 in 80216-10_0045r2.

Here's resubmission based on 16m/D8:

What happens if the AMS could not conduct the primary change as instructed by the ABS even it correctly received and ack-ed the AAI_CM-CMD message? There are reasons similar to HO failure that triggers this error condition.

The two primary carrier change cases as shown in 423 have no means to handle such an error condition.

we suggest the following to handle this problem:

1. use AAI_CM-IND sent on the target carrier to indicate a success of primary carrier change at AMS. only after receiving an AAI_CM-IND sent on the target carrier, the ABS can use the target carrier as the new primary carrier for control channels;

2. use AAI_CM-IND sent on the serving carrier at the action time to indicate a failure of primary carrier change.


**Suggested Remedy**

make the following changes:

1. change the paragraph in line 13 on page 349 as follows:

If the AMS supports carrier aggregation mode and the target carrier is one of the active secondary carriers of the AMS, the AMS may receive data and control signal on the target carrier immediately after switching. Otherwise, the AMS first reconfigures its hardware setting (e.g. RF center frequency) and switches to target carrier. If Ranging indicator in the AAI_CM-CMD message is set to '1', the AMS shall perform the periodic ranging procedure with the target carrier. After successfully completing this action, the AMS shall transmit an AAI_CM-IND message on the target carrier to notify its readiness of the target carrier to the ABS; <ins> otherwise the AMS shall transmit an AAI_CM-IND on the serving carrier to indicate a failure of the primary carrier change. If Ranging indicator in the AAI_CM-CMD message is set to '0', at the action time, the AMS shall transmit an AAI_CM-IND message to the ABS on the target carrier if it is ready to use the target carrier as its new primary carrier; otherwise it shall transmit the AAI_CM-IND message on its serving carrier. The ABS shall use the target carrier as the primary carrier </ins> <del>may transmit data and control signal </del> after the AAI_CM-IND message is received from the AMS through the target primary carrier. Given that a common MAC manages both serving and target primary carriers, network reentry procedures at the target primary carrier is not required. The ABS may direct an AMS to change the primary carrier without scanning.

2. insert the following new paragraph in line 25 on page 349:

At the action time of the primary carrier change as instructed by the ABS in a received AAI_CM-CMD message, if the AMS is not ready to use the target carrier as the new primary carrier, i.e., a failure of primary carrier change, the AMS shall send an AAI_CM-IND message on the serving primary carrier. When receiving an AAI_CM-IND message on the serving carrier at or after the action time, the ABS considers the corresponding primary carrier change procedure is failed and it shall keep using the serving carrier as the primary carrier for the AMS.


**GroupResolution**                                    **Decision of Group:**    **Principle**

adopt contribution IEEE 802.16m-10/1175r1

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.8; MAC Multicarrier

**Editor's Notes**          **Editor's Actions**      b) none needed

| **Comment by:** | Lei Wang | **Membership Status:** | **Date:** 8-Sep-2010 |
|---|---|---|---|

| **Comment #** B164 | **Document under Review:** P802.16m/D8 | **Ballot ID:** sb_16m |
|---|---|---|

**Comment**   **Type** Technical   **Part of Dis** ☒   **Satisfied** ☐   **Page** 840   **Line** 15   **Fig/Table#**   **Subclause** 16.4.5.1

Not satisfied with the comment resolution given to comment A055 in 802.16-10/0045r2. The following text is given as the "reason" to disagree with comment A055:
"To limit complexity and to avoid limiting the duplication of functionality of Relay and Femto. "
Note that we are talking about there is already an air link connection between the Femto ABS and the Macro ABS; then why more complexity? Regarding Femto vs. relay, I think there are two points that should be pointed out: one is that there is no reason (neither technical nor practical) to draw a solid line between Femto and relay; the other is the air interface between the Femto ABS and the Macro ABS does not have to be the same as the air interface between the Femto ABS and its subscriber stations.
Therefor, When a Femto ABS is connected to an overlaid Macro ABS through the Femto ABS's air interface, Why is the wireless connection between Femto ABS and Macro ABS limited to control message only?

**Suggested Remedy**

change the paragraph in line 15 on page 840 as follows:
For a Femto ABS that uses air interface connection with the overlaid Macro ABS <del> for exchanging control messages </del>, the Femto ABS shall perform the following additional initialization procedure during the Femto ABS initialization procedure.

**GroupResolution**                            **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Since the number of AMSs and the traffic of the AMSs will keep on varying and hence a proper signaling mechanism has to be in place for allocating appropriate resources on the air interface between the Femto and the Macro. This will lead to increased complexity and overhead.
Moreover Femto has wired backhaul connection which it is encouraged to use.

**Group's Notes**
Clause 16.4; Other Femto

**Editor's Notes**                  **Editor's Actions**      b) none needed

| **Comment  by:** | Lei  Wang | **Membership Status:** | | **Date:** 8-Sep-2010 |

**Comment #**  **B165**                    **Document under Review:**  **P802.16m/D8**              **Ballot ID:**  **sb_16m**

**Comment**        **Type** Editorial        **Part of Dis** ☐ **Satisfied** ☐        **Page** 16        **Line** 55        **Fig/Table#**        **Subclause** 5.2.5.2

wrong table reference

**Suggested Remedy**

change "Table 740" to "Table 737".

**GroupResolution**                    **Decision of Group:**   **Agree**

change "Table 740" to "Table 737".

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 5; MAC CS

**Editor's Notes**                    **Editor's Actions**     a) done

| **Comment by:** | Lei Wang | **Membership Status:** | **Date:** 8-Sep-2010 |

| **Comment #** | **B166** | **Document under Review:** | **P802.16m/D8** | **Ballot ID:** | **sb_16m** |

**Comment**     **Type** Technical     **Part of Dis** ☒ **Satisfied** ☐     **Page** 77     **Line** 43     **Fig/Table#**     **Subclause** 16.2.3

This is a follow-up comment to comment A059 in 802.16-10/0045r2.

For the MAC control messages, the current table format does not properly specify the all the needed information, e.g., the information about location of the information fields regarding the loops and if-condition statements is not shown in the current 16m MAC message specification table format.

In order to properly specify the 16m MAC control messages, people participated in the the MAC message format discussion during session #68.5 agreed to use a new table format as shown in contribution C802.16m-10/1060r3 or its latest version, where the 16e-style pseudo c-code to specify the MAC control messages, before converting them to ASN.1 code in the Annex section.

**Suggested Remedy**

Properly specify all the MAC control messages in the Table format as shown by the examples given in contribution C802.16m-10/1060r3 or its latest version.

**GroupResolution**          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

no specific remedy is available

**Group's Notes**

Clause 16.2.3; MAC Control Messages

**Editor's Notes**          **Editor's Actions**     b) none needed

| | | | |
|---|---|---|---|
| **Comment  by:** | Lei  Wang | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #  B167**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 141  **Line** 61      **Fig/Table#**      **Subclause** 16.2.3.18

clarify the definition of the AAI-CLC-RSP message.

.

**Suggested Remedy**

discuss and adopt contribution C802.16m-10/1145 or its latest version.

**GroupResolution**                  **Decision of Group:**   **Principle**

discuss and adopt contribution C802.16m-10/1145r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; CLC-RSP; Co-located Coexistence

**Editor's Notes**                  **Editor's Actions**      a) done

**Comment  by:**                        Lei   Wang                    **Membership Status:**                          **Date:**  8-Sep-2010

**Comment #  B168**                        **Document under Review:  P802.16m/D8**                **Ballot ID:  sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☐  **Satisfied** ☐          **Page** 900          **Line** 46          **Fig/Table#**                    **Subclause** 16.9.2.4

The sentence in line 46 on page 900 needs a clarification regarding the switching between the primary and secondary carriers.

**Suggested Remedy**

change the sentence in line 46 page 900 as follows:
When the AMS finishes receiving E-MBS data, the AMS shall <ins>return to </ins> <del> stay in </del> the primary carrier

**GroupResolution**                        **Decision of Group:**   **Agree**

change the sentence in line 46 page 900 as follows:
When the AMS finishes receiving E-MBS data, the AMS shall <ins>return to </ins> <del> stay in </del> the primary carrier

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.9; Other eMBS

**Editor's Notes**                        **Editor's Actions**        a) done

| **Comment by:** | Lei Wang | **Membership Status:** | **Date:** 8-Sep-2010 |
|---|---|---|---|

**Comment #** **B169**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page** 900   **Line** 35     **Fig/Table#**     **Subclause** 16.9.2.4

When carrier switching is used for E-MBS, the secondary carrier has to be successfully activated before carrier switching can be used. It is very obvious, but needs to be clearly specified.

**Suggested Remedy**

change the paragraph in line 35 page 900 as follows:
<ins> On the multicarrier deployment, primary to secondary carrier switching is used for E-MBS only. With the carrier switching, the E-MBS data, including E-MBS configuration message, E-MBS MAP, and E-MBS contents, is transmitted on an active secondary carrier. </ins> <del>When E-MBS data, including E-MBS configuration message, E-MBS MAP, and E-MBS contents, is transmitted on an alternative carrier, i.e. other than the AMS's primary carrier where service flows are configured</del> <ins> When carrier switching is used, the E-MBS service flows are configured on the AMS's primary carrier, and </ins> the AMS is redirected to the carrier carrying E-MBS data through DSA as described in 16.9.2.1.

**GroupResolution**                    **Decision of Group:**   **Agree**

change the paragraph in line 35 page 900 as follows:
<ins> On the multicarrier deployment, primary to secondary carrier switching is used for E-MBS only. With the carrier switching, the E-MBS data, including E-MBS configuration message, E-MBS MAP, and E-MBS contents, is transmitted on an active secondary carrier. </ins> <del>When E-MBS data, including E-MBS configuration message, E-MBS MAP, and E-MBS contents, is transmitted on an alternative carrier, i.e. other than the AMS's primary carrier where service flows are configured</del> <ins> When carrier switching is used, the E-MBS service flows are configured on the AMS's primary carrier, and </ins> the AMS is redirected to the carrier carrying E-MBS data through DSA as described in 16.9.2.1.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.9; Other eMBS

**Editor's Notes**          **Editor's Actions**     a) done

**Comment by:**          Lei  Wang          **Membership Status:**          **Date:** 8-Sep-2010

**Comment #  B170**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page** 900   **Line** 54     **Fig/Table#**     **Subclause** 16.9.2.4

Have the following issues with the carrier switching mode-0:
1. does it need the AAI-E-MBS-REP / RSP handshaking after the DSx messages?
2. if not, then when the carrier switching starts?
3. If so, then what's the difference between mode-0 and mode-1, just the bitmap being repeated in both DSx and AAI-EMBS-RSP?
Any way, I don't see any reasons to have two modes for carrier switching for E-MBS at this point. But certainly open to be convinced.

**Suggested Remedy**

combine the two modes of carrier switching for E-MBS by making the following changes:
1. change the sentence in line 54 page 900 as follows:
When Carrier Switching Mode is <ins> used </ins> </del> 0b0 </del>, <ins> a </ins> Unicast Available Interval Bitmap is <ins> used </ins> </del>included in AAI-DSA-REQ/RSP message for carrier switching mode</del> to indicate the duration in which the AMS is available in the primary carrier for Unicast and duration the AMS is in the secondary carrier to receive E-MBS.
2. change the sentence in line 4 page 901 as follows:
Whenever the AMS adds/removes E-MBS content, the AMS shall discontinue carrier switching, return to the primary carrier and the ABS shall re-allocate the Unicast Available Interval and update the Unicast Available Interval Bitmap </del> using a new AAI-DSA transaction</del>.
3. change the sentence in line 10 page 901 as follows:
</del> When Carrier Switching Mode is 0b1 , an</del> <ins> An </ins>AMS transmits the AAI-E-MBS-REP message to the ABS to inform the ABS which E-MBS service(s) the AMS intends to receive.
4. delete line 46 to 48 on page 204;
5. delete line 55 to 59 on page 214.

**GroupResolution**          **Decision of Group:   Disagree**

**Reason for Group's Decision/Resolution**

Reason for disagree (answers to questions above):

1.    does it need the AAI-E-MBS-REP / RSP handshaking after the DSx messages?

Yes. Primarily because DSx does not imply readiness to receive E-MBS content in partially configured carrier. It just means that the service flows have been set-up and it is up to the AMS to receive E-MBS. In the same carrier, it doesn't matter. The AMS can receive whenever.  However, if it is shifting to another carrier, it will have to clearly tell the primary carrier when it is switching.  For example, the AMS may choose to receive an E-MBS stream about 30 minutes after the DSx exchange.  So, how does it indicate the superframe number when it switches to other carrier to

receive E-MBS?  That's why we need the E-MBS REP/RSP handshaking.

2.   if not, then when the carrier switching starts?

The answer to the first question shows a scenario where the E-MBS REP/RSP handshake asking for carrier switching start time.  So, that handshake is responsible for 3 things – indicating when carrier switching would occur,  updating the ABS with the stream that it intends to receive (when the mode -1 is set in DSx) and when carrier switching stops.

3.   If so, then what's the difference between mode-0 and mode-1, just the bitmap being repeated in both DSx and AAI-EMBS-RSP?

mode 0 – is when the ABS assigns a unicast available interval (UAI) bitmap – tells the AMS when it should be available in the primary carrier.  In case the ABS can't find the UAI bitmap (occurs when the 16 streams for which the DSx is being set-up occupy most of the MSI), then it asks the AMS to help it in setting the UAI bitmap.  That's when mode-1 is activated.   So, the DSx first tries to tell the AMS when it should be available in the primary carrier failing which E-MBS REQ/RSP is used.

**Group's Notes**
Clause 16.9; Other eMBS

**Editor's Notes**                    **Editor's Actions**      b) none needed

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Lei  Wang | **Membership Status:** | | **Date:** 8-Sep-2010 |

| | | | |
|---|---|---|---|
| **Comment #  B171** | **Document under Review:  P802.16m/D8** | | **Ballot ID:  sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☒  **Satisfied** ☐    **Page** 249    **Line** 25    **Fig/Table#**    **Subclause** 16.2.3.59

With the AAI-E-MBS-REP/RSP messages, the text in page 248 line 34 says they can be used to indicate the stop time of carrier switching operation. But how? no relevant text in the AAI-E-MBS-RSP message specifiction.

**Suggested Remedy**

make the following changes:
1. page 249, line 46, change the value/notes box of the "carrier switching start time" row as follows:
4 LSBs of superframe number at which the AMS <ins> starts carrier switching operation </ins><del>switches carrier to receive E-MBS </del> <ins> when the report mode is 0b00;
4 LSBs of superframe number at which the AMS stops carrier switching operation when the report mode is 0b10 </ins>
2. page 249, line 46, change the conditions box of the "carrier switching start time" row as follows:
Present when the report mode in AAI-E-MBS-REP message is 0b00 <ins> or ob10 </ins>

**GroupResolution**                    **Decision of Group:**  **Agree**

make the following changes:
1. page 249, line 46, change the value/notes box of the "carrier switching start time" row as follows:
4 LSBs of superframe number at which the AMS <ins> starts carrier switching operation </ins><del>switches carrier to receive E-MBS </del> <ins> when the report mode is 0b00;
4 LSBs of superframe number at which the AMS stops carrier switching operation when the report mode is 0b10 </ins>
2. page 249, line 46, change the conditions box of the "carrier switching start time" row as follows:
Present when the report mode in AAI-E-MBS-REP message is 0b00 <ins> or ob10 </ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; E-MBS-RSP

**Editor's Notes**            **Editor's Actions**    a) done

The tables from this comment are already covered in comment B10074

| **Comment by:** | Lei Wang | **Membership Status:** | | **Date:** 8-Sep-2010 |

| **Comment #** **B172** | | **Document under Review:** **P802.16m/D8** | | **Ballot ID:** **sb_16m** |

| **Comment** | **Type** Technical | **Part of Dis** ☒ **Satisfied** ☐ | **Page** 249 | **Line** 27 | **Fig/Table#** | **Subclause** 16.2.3.59 |

Based on 16m/D8, the AAI-E-MBS-RSP can only be sent as a response to a received AAI-E-MBS-REQ, which means only AMS can initiate carrier switching operation. Why cannot the ABS initiate it? Actually, do we think that the ABS may need more control on this carrier switching operation considering the scheduler is inside ABS.

**Suggested Remedy**

make the following changes:
1. page 249, line 27, change the paragraph as follows:
The AAI-E-MBS-RSP message shall be transmitted by the ABS <ins>either </ins> in response to an AAI-EMBS-REP message sent by the AMS <ins> or in an unsolicited manner </ins>.
2. page 249, line 46, insert the following row in Table 756:
M/O Attributes/Array Size Value/Notes Conditions
of attributes (bits)
<ins> M Report Mode 2 Indicates the AMS starts/changes/ends E-MBS
0b00: AMS requests ABS to assign a carrier
switching start time
0b01: AMS updates E-MBS connection Bitmap
0b10:AMS ends E-MBS carrier switching
0b11: reserved </ins>

**GroupResolution**                    **Decision of Group:**  **Disagree**

**Reason for Group's Decision/Resolution**

vote 1, 4, 0
Trigger condition for unsolicited E-MBS-RSP message is not clear

**Group's Notes**

Clause 16.2.3; MAC Control Messages; E-MBS-RSP

**Editor's Notes**          **Editor's Actions**    b) none needed

| **Comment by:** | Yi-Ting Lin | **Membership Status:** | **Date:** 8-Sep-2010 |
|---|---|---|---|

**Comment #** **B173**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**  **Type** Technical  **Part of Dis** ☒  **Satisfied** ☐  **Page** 856  **Line** 46  **Fig/Table#**  **Subclause** 16.5.1.3.1

With the help of calibration sounding sequence, not only the mismatch of TX/RX RF phase mismatch but the mismatch of over the air (OTA) DL/UL phase can be eliminated. In order to further improve the sounding based phase calibration, a scheme of generation of calibration sounding sequence for OTA mismatch is proposed.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1136 or its latest revision.

**GroupResolution**                **Decision of Group:**  **Principle**

Resolved by comment B187:

Adopt the text proposal in C802.16m-10/1136r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**          **Editor's Actions**     b) none needed

| **Comment  by:** | Chih-Cheng  Yang | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #**  **B174**               **Document under Review:**  **P802.16m/D8**               **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page** 856   **Line** 46     **Fig/Table#**     **Subclause** 16.5.1.3.1

In current UL sounding based CL-MD and Co-MIMO operation, the purpose of DL/UL phase mismatch calibration is mainly for TX/RS radio phase mismatch at ABS, other than the over the air (OTA) channel mismatch. However, from the view of probability, it is hard to get the channel reciprocity in single DL/UL channel, not mention to the scenario where multiple ABSs exist and all multiple DL/UL channels satisfy the condition of channel reciprocity. Therefore, we suggest to add the calibration procedure for OTA channel mismatch.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1136 or its latest revision.

**GroupResolution**               **Decision of Group:**   **Principle**

Resolved by comment B187:

Adopt the text proposal in C802.16m-10/1136r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**               **Editor's Actions**     b) none needed

| **Comment  by:** | Shiann-Tsong  Sheu | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #  B175**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☒  **Satisfied** ☐          **Page** 856          **Line** 46          **Fig/Table#**          **Subclause**  16.5.1.3.1

In the text of UL sounding based Multi-BS MIMO operation, the DL/UL pahse mismatch calibration is actually for RX/RX radio phase mismatch. In order to refect this fact and to prevent misunderstanding, we proposed to modify the text in 16.5.1.3. by changing the DL/UL phase mismatch related descriptions to TX/RX radio phase mismatch and add the calibration procedure of DL/UL phase mismatch.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1136 or its latest revision.

**GroupResolution**          **Decision of Group:**   **Principle**

Resolved by comment B187:

Adopt the text proposal in C802.16m-10/1136r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**          **Editor's Actions**     b) none needed

| **Comment by:** | Yi-Ting Lin | **Membership Status:** | **Date:** 8-Sep-2010 |

| **Comment #** **B176** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☒ **Satisfied** ☐    **Page** 848    **Line** 38    **Fig/Table#**    **Subclause** 16.4.11

This contribution clarifies the interference indication from an interfered AMS in the cases, which AMS is connected to S-ABS, and AMS is not connected with any ABS.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1149 or its latest revision.

**GroupResolution**                    **Decision of Group:**    **Principle**


Adopt the contribution C802.16m-10/1149r1.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.4; Other Femto

**Editor's Notes**            **Editor's Actions**    a) done

| **Comment  by:** | Yi-Ting  Lin | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #**  **B177**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**     **Type**  Technical     **Part of Dis** ☒ **Satisfied** ☐     **Page**  850     **Line**  8     **Fig/Table#**     **Subclause**  16.4.11.1

This contribution cleans up Table 968 in 16.4.11.1.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1165 or its latest version.

**GroupResolution**          **Decision of Group:**   **Agree**

Adopt the contribution C802.16m-10/1165

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.4; Other Femto

**Editor's Notes**          **Editor's Actions**     a) done

| **Comment  by:** | | Xiangying  Yang | | **Membership Status:** | | **Date:** 8-Sep-2010 |

| **Comment #  B178** | | **Document under Review:  P802.16m/D8** | | **Ballot ID:  sb_16m** |

**Comment**   **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 860   **Line** 64    **Fig/Table#**    **Subclause** 16.6.2.2

Relay MAC PDU format should not be mandatory. As Layer-3 header compression may be used to achieve the same goal. This should be operator's choice.

**Suggested Remedy**

ASN data traffic for AMSs sent on the relay connections on the relay link <ins>should</ins><del>shall</del> be encapsulated into a relay MAC PDU.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Commenter sent a reply comment withdrawing the comment as it was based on an unrelated piece of text.

**Group's Notes**
Clause 16.6; Other Relay

**Editor's Notes**            **Editor's Actions**    b) none needed

**Comment  by:**          Xiangying  Yang          **Membership Status:**          **Date:** 8-Sep-2010

**Comment #  B179**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☐ **Satisfied** ☐          **Page** 874          **Line** 1          **Fig/Table#**          **Subclause** 16.6.2.10.2.2

duplicated text with Section 16.6.2.11.1 and in wrong section

**Suggested Remedy**

delete the last sentence of Section 16.6.2.10.2.2:
<del>When an ARS wishes to perform initial ranging with an ABS, the ARS shall follow the same steps as an AMS would, when the AMS performs initial ranging with the ABS as described in 16.2.15.3.</del>

**GroupResolution**          **Decision of Group:**   **Agree**

delete the last sentence of Section 16.6.2.10.2.2:
<del>When an ARS wishes to perform initial ranging with an ABS, the ARS shall follow the same steps as an AMS would, when the AMS performs initial ranging with the ABS as described in 16.2.15.3.</del>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.6; Other Relay

**Editor's Notes**          **Editor's Actions**     a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Xiangying Yang | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B180**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 874     **Line** 9     **Fig/Table#**     **Subclause** 16.6.2.11.1

Ideally ARS doing ranging shall follow the same protocol as a MS. Since RS can only talk with BS in relay zone, there may or may not be ranging channel allocation in the relay zone. The simplest approach is to ask RS temporarily suspend relay zone on the relay link during ranging (as a regular MS). Otherwise relay may have to rely on dynamic ranging allocated just for relay. Currently it is not clear how ARS is doing ranging.

**Suggested Remedy**

clarify ranging behavior of ARS

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

When the ARS performs network entry, the ARS operate like AMS. Before the end of network entry, there is no relay zone. The ARS can use the entire ABS frame for the ranging process.

**Group's Notes**

Clause 16.6; Other Relay

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment  by:**          Hyunjeong  Kang          **Membership Status:**                    **Date:** 8-Sep-2010

**Comment #  B181**                    **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 16      **Line** 30      **Fig/Table#**      **Subclause** 5.2.4

The Ethernet service is already deployed and provided to the subscribers today by WiMAX operators in some regions and countries. However, the current 802.16m draft specification excludes the capabilities to support transmission of Ethernet frames over the advanced air interface, except by additional manipulation of multiprotocol flow specific extension. This requires unnecessary processing overhead at AMS and network for the advanced network to interwork with the legacy network, and makes handovers between the two networks difficult with much implementation restrictions. For example, if AMS handovers from ABS to BS, leftover MAC packets at old ABS and AMS should be reconstructed to prevent any packet losses by the handover, which is not easy at all to implement in reality.

**Suggested Remedy**

Discuss and adopt a contribution IEEE 802.16m-10/1236 or later version

**GroupResolution**                    **Decision of Group:**  **Principle**

Discuss and adopt a contribution IEEE 802.16m-10/1236r3

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 5; MAC CS

**Editor's Notes**                    **Editor's Actions**      a) done

The tables from this comment are already covered in comment B035, B040 and B041

| **Comment by:** | Kiseon  Ryu | **Membership Status:** | | **Date:** 8-Sep-2010 |

| **Comment #  B182** | | **Document under Review:  P802.16m/D8** | **Ballot ID:  sb_16m** |

**Comment**      **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 323   **Line** 1      **Fig/Table#**      **Subclause** 16.2.6.4.1.2.1

AMS should be able to have another zone switch capability allowing DL only processing in both zones for easier development. In this case, the AMS can succesfully receive SFH while operating in LZone until Action Time. This allows AMS to expedite network re-entry in MZone after zone switch.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1234 or its latest revision.

**GroupResolution**                **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

incomplete remedy

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**                **Editor's Actions**     b) none needed

| **Comment  by:** | Chiu-Wen  Chen | **Membership Status:** | | **Date:** 8-Sep-2010 |

| **Comment #  B183** | **Document under Review:  P802.16m/D8** | **Ballot ID:  sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☒ **Satisfied** ☐    **Page** 573    **Line** 14    **Fig/Table#**    **Subclause** 16.3.5.2.3

AAI_E-MBS-CFG Change Indicator was removed from the E-MBS MAP in D8. However, Table 834 and the related text in section 16.3.5.2.3 are inconsistent. This comment proposes the cleanup to ensure the text of this section consistent.

**Suggested Remedy**

Adopt the text proposal in C802.16m-10/1161 or its latest version.

**GroupResolution**                    **Decision of Group:**   **Agree**

Adopt the text proposal in C802.16m-10/1161

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**                    **Editor's Actions**    a) done

| **Comment by:** | Young Soo Yuk | **Membership Status:** | **Date:** 8-Sep-2010 |
|---|---|---|---|

**Comment # B184**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page** 236     **Line** 34     **Fig/Table#**     **Subclause** 16.2.3.52

Logical Carrier Index is deleted before, and it should be cleaned-up.

**Suggested Remedy**

Adopt following modification to the notes in row 6 of table 749.
The index refers to a Physical carrier index in AAI-MC-ADV message. <del>Logical carrier index is assigned implicitly in the order of assigned physical carrier index </del>

**GroupResolution**          **Decision of Group:** **Agree**

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; MC-RSP; Multicarrier

**Editor's Notes**          **Editor's Actions**     a) done

| **Comment by:** | Young Soo  Yuk | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #**  **B185**                  **Document under Review:**  **P802.16m/D8**                  **Ballot ID:**  **sb_16m**

**Comment**       **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐       **Page** 331    **Line** 9              **Fig/Table#**              **Subclause** 16.2.7.1

Persistent scheduling is used for connections with periodic traffic pattern and with relatively fixed size.
the current UL Persistent allocation method does not support per-connection allocation.
If an ABS has two PAs, an AMS cannot know which PA is for which flow.

**Suggested Remedy**

Adopt the Text proposals in C802.16m-10/1224 or the latest revision of the contribution.

**GroupResolution**                            **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 0, 3, 0
proposal does not consider the voip transmission signaled through basic assignment

**Group's Notes**

Clause 16.2.7; MAC Persistent Scheduling

**Editor's Notes**                **Editor's Actions**      b) none needed

**Comment  by:**        Young Soo  Yuk          **Membership Status:**              **Date:** 8-Sep-2010

**Comment #  B186**              **Document under Review:  P802.16m/D8**         **Ballot ID:  sb_16m**

**Comment**        **Type** Technical     **Part of Dis** ☒ **Satisfied** ☐    **Page** 331    **Line** 9         **Fig/Table#**              **Subclause** 16.2.7.1

Persistent scheduling is used for connections with periodic traffic pattern and with relatively fixed size.
the current UL Persistent allocation method does not support per-connection allocation.
If an ABS has two PAs, an AMS cannot know which PA is for which flow.

**Suggested Remedy**

Adopt the Text proposals in C802.16m-10/1224 or the latest revision of the contribution.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

This proposal does not consider VoIP with assignment through Basic A-MAP IE

**Group's Notes**
Clause 16.2.7; MAC Persistent Scheduling

**Editor's Notes**           **Editor's Actions**    b) none needed

| **Comment  by:** | Chiu-Wen  Chen | **Membership Status:** | | **Date:** 8-Sep-2010 |

| **Comment #** **B187** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☒ **Satisfied** ☐    **Page** 856    **Line** 46    **Fig/Table#**    **Subclause** 16.5.1.3.1

To clarity the current sounding based phase calibration scheme, we modify the current text which is originally for TX/RX RF phase mismatch and add a scheme to solve the problem of over the air DL/UL phase mismatch.

**Suggested Remedy**

Adopt the text proposal in C802.16m-10/1136 or its latest version.

**GroupResolution**                **Decision of Group:**   **Principle**

Adopt the text proposal in C802.16m-10/1136r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**            **Editor's Actions**     a) done

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Young Soo Yuk | **Membership Status:** | | **Date:** 8-Sep-2010 |

**Comment #** **B188**     **Document under Review:** **P802.16m/D8**     **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒ **Satisfied** ☐     **Page** 633     **Line** 50     **Fig/Table#**     **Subclause** 16.3.5.5.2.4.9

In D8, for UL persistent allocation, the N_ACID is not consistent with the number of maximun transmissions. In order to support 8 max re-transmission, the value should be changed.

**Suggested Remedy**

Adopt the Text proposal in C802.16m-10/1231 or the latest revision of the contribution.

**GroupResolution**     **Decision of Group:** **Disagree**

**Reason for Group's Decision/Resolution**

Vote:
In favour: 0
Opposed: 5
Abstain:

It is not necessary to reserve 8 ACIDs for one connection.

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**     **Editor's Actions**     b) none needed

| **Comment by:** | | Mark Cudak | | **Membership Status:** | | **Date:** 8-Sep-2010 |

| **Comment #** | **B189** | | **Document under Review:** | **P802.16m/D8** | | **Ballot ID:** | **sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 460    **Line** 27    **Fig/Table#**    **Subclause** 16.2.24

The resolution of sponsor ballot comment A225 specified the adoption of contribution C802.16m-10/0973r3. However, several errors and omissions occurred during the implementation of the contribution in P802.16m/D8. This comment specifies the additional modifications required in D8 to completely and correctly implement the original contribution.

**Suggested Remedy**

Adopt contribution C802.16m-10/1092 or its latest revision.

**GroupResolution**                **Decision of Group:**   **Principle**

Adopt contribution C802.16m-10/1092r2

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.24; MAC Update of S-SFH

**Editor's Notes**                **Editor's Actions**    a) done

10/1092r2 done hyunjeong (except remedy #3,#4,#5: PHY book)  done (RGM)

| **Comment by:** | Dan Gal | **Membership Status:** | | **Date:** 8-Sep-2010 |
|---|---|---|---|---|

**Comment #** **B190**   **Document under Review:** **P802.16m/D8**   **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☒ **Satisfied** ☐   **Page** 55   **Line** 30   **Fig/Table#**   **Subclause** 16.2.1.2.3

1) 12bit DID is not sufficient to cover the total MSs in Idle state in Paging Group. 12bits has very high collision rate, hence will create lot of spurious Paging messages to multiple AMS.

2) Even if '12bit DID+9 bit paging offset' together if considered, to extend the range and avoid collisions, would require a central entity within each Paging Group, to coordinate the DID and offset allocation.

3) A central DID+offset allocation entity has multiple problems. It is against the distributed architecture adopted by NWG. (NWG already passed a resolution, that Paging architecture will not be changed in WiMAX R2.0).

4) When there are multiple Paging Controllers distributed in a Paging Group (PG), without a central entity , this coordination among all the PCs for DID+Offset allocation, which would add to the Idle mode entry (AI-RNG-RSP) time.

5) Location Update from AMS already in Idle Mode from other PGs, would require a new DID to be assigned in each PG.

6) Whenever a new DID is allocated during Location Update, a new network procedure is required to free up the DID back in the previous PG, where the AMS moved out. This freeing of DID needs to be propagated further to all the Paging Controllers within the PG too.

7) All the steps from 2-6, would need new network messages and adds to the backhaul load.

8) Except in totally new Greenfield deployments of 16m based network, an ABS/network has to support both legacy MS and AMS. Hence support of 48bit MSID for legacy Idle Mode MS needs to be supported. This means in most cases, network needs to support both ID/operations simultaneously.

9) Overall Network efficiency comes down so much by this unwanted DID change in the name of air interface efficiency, which again is not proved conclusively

**Suggested Remedy**

change current text to:

"The network shall assign a 48-bit DID to each AMS during Idle Mode initiation. The DID shall be either 48bit MSID or MSID*, if identity privacy was invoked by AMS. The network shall use a 24bit hash value of the DID in AAI-PAG-ADV message when paging the AMS. An AMS in Idle-Mode shall decode the DID hash value, to determine whether or not it is being paged."

**GroupResolution**   **Decision of Group:** **Principle**

[Editor's Note: Add the following text after line 32 in page 55 in "16.2.1.2.3 Deregistration Identifier (DID)" as shown below]16.2.1.2.3 Deregistration Identifier (DID)

16.2.1.2.3 Dergistration Identifier (DID)

<ins>A 24-bit hash value of the MAC address is used to identify Idle Mode AMSs in legacy network mode. DID is used to identify Idle Mode AMSs in advacned network mode.</ins>

The <ins>advanced</ins> network shall assign a 12-bit DID to each AMS during Idle Mode initiation. The <ins>advanced</ins> network may assign a new DID to an AMS during location update procedure. The DID shall uniquely identify the Idle Mode AMS within the set of paging group ID, paging cycle and paging offset.

<ins>The legacy network uses a 48bit MAC address for Idle Mode AMSs. The legacy network shall use a 24bit hash value of the MAC address in AAI-PAG-ADV message when paging the AMS. An AMS in Idle-Mode shall decode the MAC address hash value, to determine whether or not it is being paged.</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.1; MAC Addressing

**Editor's Notes**          **Editor's Actions**     a) done

**Comment  by:**          Yi-Ting  Lin                 **Membership Status:**                **Date:**  8-Sep-2010

**Comment #  B191**                    **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**      **Type** Technical     **Part of Dis** ☒ **Satisfied** ☐     **Page** 844    **Line** 11      **Fig/Table#**        **Subclause** 16.4.7.5

There are three types of Femto ABS in the IEEE 802.16m D8, which are OSG/CSG-Open/CSG-Closed Femto ABS. Only the CSG-Closed Femto ABS can reject the non-member AMSs. The CSG-Open Femto ABS shall not reject the AAI-RNG-REQ from the non-member AMSs. The corresponding text is modified to clarify the reselection procedure.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1150 or its latest version.

**GroupResolution**                    **Decision of Group:**   **Principle**

Adopt the contribution C802.16m-10/1150r2.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.4; Other Femto

**Editor's Notes**          **Editor's Actions**     a) done

| **Comment by:** | Chun-Yen Hsu | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B192**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒ **Satisfied** ☐     **Page** 843     **Line** 46     **Fig/Table#**     **Subclause** 16.4.7.3

In the section 16.4.7.3, it is mentioned that non-member AMS shall not attempt network entry or handover to the CSG-Open Femto ABS when its cell bar bit is set to 1. However, users shall not try to implement network entry or handover process to any ABS which the cell bar bit is 1 (16.2.6.3.2 HO decision and initiation line 24). Thus, the statement in the section 16.4.7.3 is not necessary.

**Suggested Remedy**

Adopt contribution C802.16m-10/1150 or its latest version.

**GroupResolution**                    **Decision of Group:** **Principle**

Adopt contribution C802.16m-10/1151.

**Reason for Group's Decision/Resolution**

Please note that commentor has wrongly referred to contribution 1150 in the comment.

**Group's Notes**

Clause 16.4; Other Femto

**Editor's Notes**                **Editor's Actions**     a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Shao-Cheng Wang | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B193**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒ **Satisfied** ☐     **Page** 16     **Line** 53     **Fig/Table#**     **Subclause** 5.2.5.2

In the 802.16m/D8, the IP classification rules described in Section 5.2.5.2 are not suitable to classify IPinIP traffic such as VPN traffic into a different class. It may be noted that classifying such traffic into a different class and use a separate flow ID (FID) to provide differentiated QoS to enterprise VPN traffic.

**Suggested Remedy**

Adopt contribution C802.16m-10/1228 or later version

**GroupResolution**          **Decision of Group:** **Principle**

Adopt contribution C802.16m-10/1228r1

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 5; MAC CS

**Editor's Notes**          **Editor's Actions**     a) done

| **Comment  by:** | Shao-Cheng  Wang | **Membership Status:** | | **Date:** 8-Sep-2010 |

| **Comment #** **B194** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**      **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 17      **Line** 36      **Fig/Table#**      **Subclause** 5.2.6

In the 802.16m/D8, multi-protocol convergence sublayer is used to transport different types of protocols over the same MAC service flow. Table 17 is missing some of the protocols that may be used in a IEEE 802.16m system.

**Suggested Remedy**

Adopt contribution C802.16m-10/1229 or later version

**GroupResolution**                      **Decision of Group:**   **Principle**

Adopt contribution C802.16m-10/1229r1

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 5; MAC CS

**Editor's Notes**                **Editor's Actions**     a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Shao-Cheng Wang | **Membership Status:** | **Date:** 8-Sep-2010 |

| | | | |
|---|---|---|---|
| **Comment #** **B195** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**     **Type** Technical     **Part of Dis** ☒ **Satisfied** ☐     **Page** 102     **Line** 60     **Fig/Table#**     **Subclause** 16.2.3.5

In the 802.16e, there are two options to acquire NSP information, one in SBC procedure and the other in SII-SDV. In the 802.16m/D8, only AAI_SII-SDV option is available. The benefit for 802.16m system to have the second option of acquiring NSP lists in SBC procedure is very clear. It ensures effective and flexible communication of NSP information.

**Suggested Remedy**

Adopt contribution C802.16m-10/1230 or later version

**GroupResolution**                    **Decision of Group:**     **Principle**

Adopt contribution C802.16m-10/1230r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; SBC-REQ

**Editor's Notes**                    **Editor's Actions**     a) done

The tables from this comment are already covered in comment B034

**Comment by:**        Shao-Cheng  Wang          **Membership Status:**             **Date:** 8-Sep-2010

**Comment #  B196**        **Document under Review: P802.16m/D8**        **Ballot ID:  sb_16m**

**Comment**        **Type** Technical        **Part of Dis** ☐  **Satisfied** ☐        **Page** 362        **Line** 28        **Fig/Table#**        **Subclause** 16.2.11.1.1

In D8 draft, for 5-step BR procedure, how the AMS selects the BR preamble among 24 BR preamble indices is undefined.

**Suggested Remedy**

Adopt contribution C802.16m-10/1249 or later version

**GroupResolution**                **Decision of Group:**   **Principle**


<802.16m/D8, page 362, line 28>
In the regular 5-step random access BR procedure, an AMS shall send a BR preamble sequence only. <ins> The AMS should select the BR preamble randomly among 24 BR preamble indices.</ins>


**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.11; MAC Bandwidth Request and Allocation

**Editor's Notes**                **Editor's Actions**        a) done

| **Comment  by:** | Shao-Cheng  Wang | **Membership Status:** | **Date:** 8-Sep-2010 |

| **Comment #**  **B197** | **Document under Review:**  **P802.16m/D8** | **Ballot ID:**  **sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☒ **Satisfied** ☐    **Page** 419    **Line**    **Fig/Table#**    **Subclause** 16.2.15.4

The content of the capability classes has not been specified and therefore the network entry/re-entry procedures cannot be completed.

**Suggested Remedy**

Adopt the proposed text in contribution C802.16m-10/947r2 or later versions.

**GroupResolution**                **Decision of Group:**    **Agree**

Adopt the proposed text in contribution C802.16m-10/947r2

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.15; MAC Network Entry and Initialization

**Editor's Notes**                **Editor's Actions**    a) done

Needs cross-reference with Appendix V 10/947r2 (cross-references done, also corrected references to 802.16m RGM)

**Comment by:**     Shao-Cheng  Wang          **Membership Status:**          **Date:** 8-Sep-2010

**Comment #  B198**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page** 263  **Line** 35          **Fig/Table#**          **Subclause** 16.2.4.8

Some MAC control messsages need to be protected by CMAC tuple. But, the current CMAC approach in the D8 draft can't support messages coded in ASN.1.

**Suggested Remedy**

Adopt contribution C802.16m-10/0768r3 or later version

**GroupResolution**               **Decision of Group:**   **Principle**

Resolved by comment B10082:

Adopt the proposed text in C802.16m-10/0768r5

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.4; MAC PDU Contstruction; Security

**Editor's Notes**          **Editor's Actions**     b) none needed

| **Comment by:** | Shao-Cheng Wang | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B199**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page** 338   **Line** 31     **Fig/Table#**     **Subclause** 16.2.8.2.8

transmission of PHY control related messages and headers in MC operation should be clarified.

**Suggested Remedy**

Adopt contribution C802.16m-10/1192 or later version

**GroupResolution**                    **Decision of Group:**   **Principle**

Resolved by Comment #B10102:
Adopt the proposed text in C802.16m-10/1155r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**          **Editor's Actions**     b) none needed

| **Comment by:** | Shao-Cheng  Wang | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #  B200**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**      **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page** 298   **Line** 63     **Fig/Table#**        **Subclause** 16.2.5.3

AMSID privacy is NSP policy based. How to handle it when AMS does not have policy (un-provisioned) should be clarified.

**Suggested Remedy**

Adopt contribution C802.16m-10/1191 or later version

**GroupResolution**                    **Decision of Group:**   **Principle**

Adopt C802.16m-10/1191r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.5; MAC Security

**Editor's Notes**                    **Editor's Actions**     a) done

| Comment by: | Shao-Cheng Wang | Membership Status: | Date: 8-Sep-2010 |
|---|---|---|---|

| Comment # B201 | | Document under Review: P802.16m/D8 | | Ballot ID: sb_16m |
|---|---|---|---|---|

**Comment**  **Type** Technical  **Part of Dis** ☒  **Satisfied** ☐  **Page** 438  **Line** 60  **Fig/Table#**  **Subclause** 16.2.18.2.1

In the 16m legacy mode operation defined in IEEE 802.16m standard, a 16m base station is attached to a legacy 16e network. In this case, the legacy network considers all the terminals as legacy terminals and hence uses the legacy protocols for various operations such as idle mode, paging etc. In legacy networks based on IEEE 802.16e standard, the paging cycles and paging offsets for idle mode MSs are represented in terms of number of frames. On the other hand, in IEEE 802.16m these parameters are represented in terms of number of super-frames. It may be noted that one super-frame consists of four frames. Duration of each frame in IEEE 802.16e and IEEE 802.16m is 5 ms. Thus, the duration of super-frame = 4 * 5 = 20ms. In legacy mode of operation the network entity responsible for idle mode operation of MSs , e.g., Paging Controller, assign the paging cycle and paging offset that are represented in terms of frames. However, the MS is attached to a base station that uses IEEE 802.16m specifications. Thus, the MS is aware about paging cycle and paging offset to be defined in terms of number of super-frames. Therefore there is a need for mechanisms using which the MS can determine its paging operational parameters, i.e., its paging listening interval in IEEE 802.16m legacy mode operation using the IEEE 802.16e paging parameters that it receives from the BS. This comment provides methods for the above problem.

**Suggested Remedy**

Adopt the proposed text in IEEE C802.16m-10/1246 or its latest revision.

**GroupResolution**                **Decision of Group:**  **Principle**

Adopt the proposed text in IEEE C802.16m-10/1246r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.18; MAC Idle Mode

**Editor's Notes**                **Editor's Actions**     a) done

| Comment by: | Shao-Cheng Wang | Membership Status: | Date: 8-Sep-2010 |
|---|---|---|---|

**Comment # B202**          **Document under Review: P802.16m/D8**          **Ballot ID: sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☒ **Satisfied** ☐   **Page** 439   **Line** 52   **Fig/Table#**   **Subclause** 16.2.18.2.2

In IEEE 802.16m based networks, idle mode MSs are identified using the Deregistration Identifier (DID), their paging cycle and paging offsets. Thus, idle mode MSs that belong to same paging group and have same paging cycle and paging offset have unique DID so that they can be identified uniquely. The DIDs are assigned to idle mode MS by the paging controllers (PCs). One or more PCs manage each paging group. Thus, when two different PCs assign the DIDs to different idle mode MSs of the same paging group, there is a possibility that they assign the same DID to two different MSs. This is because the DID assignment of each PC is independent of the other ones. If both the MS that have the same DID also have the same paging cycle and paging offset, then these MSs have the same identification. This leads to false paging message indication as the paging message for one of these MSs also results in unwanted paging indication. This result in unwanted paging operation and unnecessary signaling overhead.This comment proposes methods to resolve this issue.

**Suggested Remedy**

Adopt the proposed text in IEEE C802.16m-10/1247 or its latest revision.

**GroupResolution**                    **Decision of Group:   Principle**


Resolved by Comment #B053
[Editor's Note: Add the following text after line 36 in page 55 in "16.2.1.2.3 Deregistration Identifier (DID)" as shown below]

The network shall assign a 12-bit DID to each AMS during Idle Mode initiation. The network may assign a new DID to an AMS during location update procedure. The DID shall uniquely identify the Idle Mode AMS within the set of paging group ID, paging cycle and paging offset. <ins>The AMS shall be assigned a randomly selected DID from the available DID space.</ins>


[Editor's Note: Add the following text after line 31 in page 431 in "16.2.18 Idle mode" as shown below]

An AMS is assigned during deregistration or location update, to one or more paging groups and, per paging group, a specific paging cycle and paging offset. The values of paging cycle and paging offset can be different among AMSs assigned to same paging group.<ins>The assignment of paging offset shall be performed in such a way that the paging offset of different idle mode AMSs is pseudo-randomized.</ins>


**Reason for Group's Decision/Resolution**

<u>**Group's Notes**</u>

Clause 16.2.18; MAC Idle Mode

<u>**Editor's Notes**</u>　　　　　<u>**Editor's Actions**</u>　　　b) none needed

| | | | | | |
|---|---|---|---|---|---|
| **Comment by:** | Shao-Cheng Wang | | **Membership Status:** | | **Date:** 8-Sep-2010 |

**Comment #** **B203**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 423   **Line** 8     **Fig/Table#**     **Subclause** 16.2.17

There are several text inconsistencies in the sleep mode section of D8. This comment proposes cleanup text for Sleep mode section in D8.

**Suggested Remedy**

Adopt the proposed text in IEEE C802.16m-10/1245 or its latest revision.

**GroupResolution**                    **Decision of Group:**   **Principle**

[Editor's Note: The following is the proposed change in the 802.16m/D8. Note that the new text is marked with blue and underline; the deleted text are marked with red and strikethrough.]

Suggested change #1: page 423, line 8
[Change text as shown below]
Sleep Mode in connected state is a <del>sort of</del> sub-state in which an AMS conducts pre-negotiated periods of absence from the S-ABS air interface.

Suggested change #2: page 423, line 17
[Change text as shown below]
During a Sleep Window, the ABS shall not transmit DL unicast MAC PDU to the AMS, therefore the AMS may power down one or more physical operation components or perform other activities that do not require <del>communication with the ABS.</del> <ins>transmission of DL unicast MAC PDUs.</ins>

Suggested change #2: page 423, line 19
[Change text as shown below]
During <ins>a</ins> Listening Window, the AMS is expected to receive all DL transmissions <ins>in the</ins>same way as in Active Mode. <ins>An</ins> AMS <ins>in sleep mode</ins> shall ensure that it has up-to-date system information for proper operation. To ensure that the AMS has up-to-date system information, the following scenarios may occur during <del>the</del> <ins>a</ins> sleep window of the sleep mode AMS .

**Reason for Group's Decision/Resolution**

**Editor's Notes**          **Editor's Actions**          a) done

**2010/10/06**                                                    **IEEE 802.16-10/0047r4**

**Comment  by:**          Shao-Cheng  Wang                    **Membership Status:**                    **Date:**  8-Sep-2010

**Comment #**  **B204**                    **Document under Review:**  **P802.16m/D8**                    **Ballot ID:**  **sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☐  **Satisfied** ☐          **Page**  103          **Line**  22          **Fig/Table#**          **Subclause**  16.2.3.6

There are several text inconsistencies in the CLC section of D8. This comment proposes cleanup text for CLC section in D8.

**Suggested Remedy**

Adopt the proposed text in IEEE C802.16m-10/1250 or its latest revision.

**GroupResolution**          **Decision of Group:**  **Agree**

Adopt the proposed text in IEEE C802.16m-10/1250.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; SBC-RSP

**Editor's Notes**          **Editor's Actions**          a) done

The tables from this comment are already covered in comment B035

| | **Comment by:** | Shao-Cheng Wang | | **Membership Status:** | | **Date:** 8-Sep-2010 |

| **Comment #** **B205** | | **Document under Review:** **P802.16m/D8** | | **Ballot ID:** **sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 443    **Line** 42    **Fig/Table#**    **Subclause** 16.2.19

There are several text inconsistencies in the DCR section of D8. This comment proposes cleanup text for DCR section in D8.

**Suggested Remedy**

Adopt the proposed text in IEEE C802.16m-10/1251 or its latest revision.

**GroupResolution**      **Decision of Group:**    **Disagree**

**Reason for Group's Decision/Resolution**

incomplete remedy

**Group's Notes**

Clause 16.2.19; MAC DCR mode

**Editor's Notes**      **Editor's Actions**    b) none needed

**Comment by:**     Shao-Cheng  Wang          **Membership Status:**          **Date:** 8-Sep-2010

**Comment #  B206**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 431     **Line** 25     **Fig/Table#**     **Subclause** 16.2.18

There are several text inconsistencies in the Idle section of D8. This comment proposes cleanup text for Idle section in D8.

**Suggested Remedy**

Adopt the proposed text in IEEE C802.16m-10/1252 or its latest revision.

**GroupResolution**          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Update the suitable  text in revised contribution.

**Group's Notes**

Clause 16.2.18; MAC Idle Mode

**Editor's Notes**          **Editor's Actions**     b) none needed

| **Comment by:** | Shao-Cheng Wang | **Membership Status:** | **Date:** 8-Sep-2010 |

**Comment #** **B207**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 128     **Line** 25     **Fig/Table#**     **Subclause** 16.2.3.13

Some of the fields of Table 692 are missing. This comment proposes text for these missing fields.

**Suggested Remedy**

Adopt the proposed text in IEEE C802.16m-10/1253 or its latest revision.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

contribution supplied is not related to the subject

**Group's Notes**

Clause 16.2.3; MAC Control Messages; NBR-ADV

**Editor's Notes**                    **Editor's Actions**     b) none needed

**Comment by:**            Jose  Puthenkulam          **Membership Status:**                    **Date:** 2010-09-08

**Comment #  B10001**              **Document under Review: P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**        **Type** Editorial        **Part of Dis** ☐  **Satisfied** ☐        **Page** 1        **Line** 33        **Fig/Table#**          **Subclause**

Missing "in" in the sentence "The editing instructions are shown bold italic"

**Suggested Remedy**

Insert "in" in the sentence.

So the new text will be

"The editing instructions are shown in ***bold italic***"

**GroupResolution**                    **Decision of Group:**   Agree

Insert "in" in the sentence.

So the new text will be

"The editing instructions are shown in ***bold italic***"

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause Frontmatter; General

**Editor's Notes**                    **Editor's Actions**      a) done

| **Comment by:** | Jose Puthenkulam | **Membership Status:** | **Date:** 2010-09-08 |
|---|---|---|---|

**Comment #** **B10002**         **Document under Review:** **P802.16m/D8**         **Ballot ID:** **sb_16m**

| **Comment** | **Type** Technical | **Part of Dis** ☐ **Satisfied** ☐ | **Page** 12 | **Line** 19 | **Fig/Table#** | **Subclause** 5.2 |
|---|---|---|---|---|---|---|

5.2 Packet CS
[Insert the following paragraph at the end of 5.2 as indicated:]
The packet CS is used for transport for all packet-based protocols.

The above statement is redundant as in 802.16-2009, the following statement already exists.
"The packet CS is used for transport for all packet-based protocols as defined in 11.13.18.3."

**Suggested Remedy**

Delete the sentence as it is redundant.

~~"The packet CS is used for transport for all packet-based protocols."~~

**GroupResolution**                 **Decision of Group:**   **Agree**

Delete the sentence as it is redundant.

~~"The packet CS is used for transport for all packet-based protocols."~~

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 5; MAC CS

**Editor's Notes**                 **Editor's Actions**     a) done

**Comment  by:**          Jose  Puthenkulam          **Membership Status:**                    **Date:** 2010-09-08

**Comment #  B10003**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 54  **Line** 50     **Fig/Table#**          **Subclause** 16.2.1.2.1.1

Many MAC control messages use the STID. In some cases the TSTID is used till a successful STID is assigned using the AAI-REG-RSP. This is not very clear in the text, because many MAC messages only specify the STID and not necessarily spell out that the TSTID could be used in its place. Example

**Suggested Remedy**

Insert the following sentence at the end of the paragraph:

16.2.1.2.1.1 Temporary Station Identifier (TSTID)
A TSTID is used temporarily to protect the mapping between the STID, which is used after network entry, and the AMS MAC Address. TSTID is allocated from the STID number space. The ABS assigns and transfers a TSTID to the AMS by AAI-RNG-RSP during initial ranging procedure. During registration procedure the ABS assigns and transfers an STID to the AMS by encrypted AAI-REG-RSP. The ABS shall release the TSTID when it identifies that the AMS has successfully completed the registration procedure, till then the TSTID is used in place of the STID in the relevant MAC control messages.

**GroupResolution**          **Decision of Group:**   **Principle**

Resolved by Comment #B053:
accept C802.16-10_1261

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.1; MAC Addressing

**Editor's Notes**          **Editor's Actions**     b) none needed

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Jaesun Cha | **Membership Status:** Member | | **Date:** ? |

**Comment #** **B10004** **Document under Review:** **P802.16m/D8** **Ballot ID:** **sb_16m**

**Comment** **Type** Technical **Part of Dis** ☐ **Satisfied** ☐ **Page** 56 **Line** 54 **Fig/Table#** **Subclause** 16.2.2.1.2

The following sentence is confusing.

"With the exception of extended header group, the SPMH shall not require any other headers."

What does 'extended header group' mean? is it an extended header group itself or a group of extended headers?

If it means only an extended header group, then the sentence is wrong because FEH can be present with SPMH. If it means a group of extended headers, it is redundant and misleading. AGMH also does not require any other headers except extended headers. It's not an unique characteristics for SPMH.

**Suggested Remedy**

The SPMH is defined to support applications, such as VoIP, which uses small data packets and non ARQ connection. Extended header group may be piggybacked on the SPMH, if allowed by its length field. ~~With the exception of extended header group, the SPMH shall not require any other headers.~~ The SPMH is identified by the specific FID that is provisioned statically, or created dynamically via AAI-DSA-REQ/RSP.

**GroupResolution** **Decision of Group:** **Agree**

edit:

The SPMH is defined to support applications, such as VoIP, which uses small data packets and non ARQ connection. Extended header group may be piggybacked on the SPMH, if allowed by its length field. ~~With the exception of extended header group, the SPMH shall not require any other headers.~~ The SPMH is identified by the specific FID that is provisioned statically, or created dynamically via AAI-DSA-REQ/RSP.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.2; MAC PDU Formats

**Editor's Notes** **Editor's Actions** a) done

| **Comment by:** | Jose Puthenkulam | **Membership Status:** | **Date:** 2010-09-08 |

**Comment #** **B10005**　　　　　**Document under Review:** **P802.16m/D8**　　　　　**Ballot ID:** **sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 58　　**Line**　　　**Fig/Table#**　　　**Subclause** 16.2.2.1.3

Make the following sub titles more readable

16.2.2.1.3.1 BR with STID Header

also for

16.2.2.1.3.2 BR without STID Header

**Suggested Remedy**
Change to

16.2.2.1.3.1 Bandwidth Request (BR) with STID Header

and

16.2.2.1.3.2 Bandwidth Request (BR) without STID Header

**GroupResolution**　　　　　　　　**Decision of Group:**　**Agree**

edit:

Change to

16.2.2.1.3.1 Bandwidth Request (BR) with STID Header

and

16.2.2.1.3.2 Bandwidth Request (BR) without STID Header

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.2; MAC PDU Formats

**Editor's Notes**　　　　　　**Editor's Actions**　　a) done

| **Comment by:** | Jaesun Cha | **Membership Status:** | Member | **Date:** | ? |

**Comment #** **B10006**    **Document under Review:** **P802.16m/D8**    **Ballot ID:** **sb_16m**

**Comment**    **Type** Editorial    **Part of Dis** ☐ **Satisfied** ☐    **Page** 59    **Line** 36    **Fig/Table#**    **Subclause** 16.2.2.1.3.3

An acronym for Service Specific Scheduling Control Header is missing.

**Suggested Remedy**

[Modify the text on page 59, line 36 as follows]
16.2.2.1.3.3 Service Specific Scheduling Control Header (SSSCH)

**GroupResolution**    **Decision of Group:** **Agree**

[Modify the text on page 59, line 36 as follows]
16.2.2.1.3.3 Service Specific Scheduling Control Header (SSSCH)

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.2; MAC PDU Formats

**Editor's Notes**    **Editor's Actions**    a) done

| **Comment by:** | Jaesun Cha | **Membership Status:** | Member | **Date:** ? |

**Comment #** **B10007**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 59   **Line** 38   **Fig/Table#**   **Subclause** 16.2.2.1.3.3

For clarification

**Suggested Remedy**

Service Specific Scheduling Control Header is sent either by AMS through dedicated UL resource or by ABS, which needs to change or acknowledge the scheduling parameters of its service flow. For aGP service, SSSCH Type indicates if it is an Adaptation Request, Adaptation ACK/NACK from AMS, or an Adaptation Response from ABS. If SCID change indicator is set to 1, the ABS shall send an SSSCH with SSSCH type = 0b01 (i.e., Adaptation Response)~~acknowledgement~~ to confirm the change of sleep mode configuration.

**GroupResolution**                    **Decision of Group:**   **Agree**

edit:

Service Specific Scheduling Control Header is sent either by AMS through dedicated UL resource or by ABS, which needs to change or acknowledge the scheduling parameters of its service flow. For aGP service, SSSCH Type indicates if it is an Adaptation Request, Adaptation ACK/NACK from AMS, or an Adaptation Response from ABS. If SCID change indicator is set to 1, the ABS shall send an SSSCH with SSSCH type = 0b01 (i.e., Adaptation Response)~~acknowledgement~~ to confirm the change of sleep mode configuration.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.2; MAC PDU Formats

**Editor's Notes**                    **Editor's Actions**     a) done

**Comment by:**   Kiseon  Ryu                **Membership Status:**   Member        **Date:** 2010-09-09

**Comment #**  **B10008**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐   **Satisfied** ☐   **Page** 61   **Line** 14   **Fig/Table#** 659   **Subclause** 16.2.2.1.3.3

The actual value of Adaptation Start Frame Offset in SSSCH may be different between ABS and AMS due to HARQ retransmission. To synchronize adaptation time between ABS and AMS, absolute frame number is more appropriate than relative frame offset.

**Suggested Remedy**

Modify the text as follows.

### Table 659—Service Specific Scheduling Control Header Format

| Syntax | Size (bits) | Notes |
|---|---|---|
| Adaptation Start Frame ~~Offset~~ | 4 | ~~Number of frames in the future from the current frame containing this SSSCH,~~ <u>LSB of the frame number</u> in which the changed QoS parameters or the switched QoS parameter set are to be applied. ~~Frame offset of zero means the adaptation takes effect immediately upon receiving of this SSSCH.~~ If (SCID change indicator == 1), this Adaptation Start Frame ~~Offset~~ also serves as the start frame <u>number</u> ~~offset~~ for the new sleep cycle. |

**GroupResolution**                     **Decision of Group:**   **Principle**

Modify the text as follows.

### Table 659—Service Specific Scheduling Control Header Format

| Syntax | Size (bits) | Notes |
|---|---|---|
| Adaptation Start Frame ~~Offset~~ | 4 | ~~Number of frames in the future from the current frame containing this SSSCH,~~ <u>Least Significant 4 bits of the frame number</u> in which the changed QoS parameters or the switched QoS parameter set are to be applied. ~~Frame offset of zero means the adaptation takes effect immediately upon receiving of this SSSCH.~~ If (SCID change indicator == 1), this Adaptation Start Frame |

~~Offset~~ also serves as the start frame <u>number</u> ~~offset~~ for the new sleep cycle.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.2; MAC PDU Formats

**Editor's Notes**          **Editor's Actions**      a) done

| **Comment  by:** | Giwon  Park | **Membership Status:** | Member | **Date:** | 2010-09-09 |

**Comment #**  **B10009**        **Document under Review:**  **P802.16m/D8**        **Ballot ID:**  **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 62    **Line** 1    **Fig/Table#** 660    **Subclause** 16.2.2.1.3.4

D8 describes AMS or ABS switches the SCID via Sleep Control Header (SCH), DSx MAC control message or AAI_SLP-REQ/RSP message when the AMS is in sleep mode. However, signaling header does not support integrity protection. Moreover, because the SCID switching impacts sleep cycle parameters in sleep cycle setting, if the SCID switching can be done by Sleep Control Header (SCH), the synchronization of the sleep cycle configuration may be broken between AMS and ABS. Thus, the SCID switching shall be done by MAC control message (i.e., DSx MAC control message or AAI_SLP_REQ/RSP message) when the AMS is in sleep mode.

**Suggested Remedy**

Adopt the proposed text of C802.16m-10/1134 or latest version.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The SCH is being modified to remove state change elements; battery level report has equivalent control  requirements to channel feedback and therefore deserves similar header treatment.

**Group's Notes**

Clause 16.2.2; MAC PDU Formats

**Editor's Notes**          **Editor's Actions**      b) none needed

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Chung-Pao Chen | **Membership Status:** Member | | **Date:** 2010-09-08 |

**Comment #** **B10010**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐ **Satisfied** ☐      **Page** 75      **Line** 59      **Fig/Table#** 675      **Subclause** 16.2.2.2.8

In table 675, there is no definition for SUB-SN. It should be replaced as SSN.

**Suggested Remedy**

Rewrite as:

~~SUB-SN~~ SSN of the first ARQ sub-block

**GroupResolution**                    **Decision of Group:** **Agree**

Rewrite as:

~~SUB-SN~~ SSN of the first ARQ sub-block

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.2; MAC PDU Formats

**Editor's Notes**                    **Editor's Actions**      a) done

The tables from this comment are already covered in comment B037

| **Comment by:** | YoungKyo  Baek | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #**  **B10011**        **Document under Review:** **P802.16m/D8**        **Ballot ID:**  **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 82    **Line** 42    **Fig/Table#** 678    **Subclause** 16.2.3

Per table 678 AAI_MSG-ACK is always encrypted, but only if primary SA is established encryption can be applied.

**Suggested Remedy**

| 63  | MISC | AAI-MSG-ACK | MAC message acknowledgement | Encrypted/ICV <ins> : when primary SA is established.    Null : when primary SA is not established</ins>| Unicast

**GroupResolution**                **Decision of Group:**  **Disagree**

**Reason for Group's Decision/Resolution**

primary SA will always be established therefore this is not needed

**Group's Notes**

Clause 16.2.3; MAC Control Messages

**Editor's Notes**            **Editor's Actions**    b) none needed

**Comment by:** YoungKyo Baek  **Membership Status:** Member  **Date:** 2010-09-09

**Comment #** **B10012**  **Document under Review:** **P802.16m/D8**  **Ballot ID:** **sb_16m**

**Comment**  **Type** Technical  **Part of Dis** ☐  **Satisfied** ☐  **Page** 82  **Line** 45  **Fig/Table#** 678  **Subclause** 16.2.3

We need to reword AAI_RES-CMD ' security usage because 'before/after authentication' is ambiguous.

**Suggested Remedy**

| 64  | MISC  | AAI-RES-CMD  | reset command  | <del>Before authentication:</del> Null <ins>: when primary SA is not established</ins>  <del>After authentication : </del>  Encrypted/ICV <ins> : when primary SA is established.</ins>| Unicast

**GroupResolution**  **Decision of Group:** **Agree**

| 64  | MISC  | AAI-RES-CMD  | reset command  | <del>Before authentication:</del> Null <ins>: when primary SA is not established</ins>  <del>After authentication : </del>  Encrypted/ICV <ins> : when primary SA is established.</ins>| Unicast

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages

**Editor's Notes**  **Editor's Actions**  a) done

| **Comment  by:** | | Joey   Chou | | **Membership Status:** | Member | | **Date:** | 2010-09-08 |

**Comment #  B10013**　　　　　　**Document under Review:  P802.16m/D8**　　　　　**Ballot ID:  sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 82　　**Line** 54　　　**Fig/Table#** 678　　**Subclause** 16.2.3

AAI-ARS-CONFIG-CMD is missing in the table

**Suggested Remedy**

Add a new raw in the table

| No. | Functional Areas | Message names | Message description | Security | Connection |
|-----|------------------|----------------|----------------------|----------|------------|
| 67 | RELAY | AAI-ARS-CONFIG-CMD | ARS configuration Command | N/A | Unicast |

**GroupResolution**　　　　　　　**Decision of Group:**   **Agree**

Add a new row in the table

| No. | Functional Areas | Message names | Message description | Security | Connection |
|-----|------------------|----------------|----------------------|----------|------------|
| 67 | RELAY | AAI-ARS-CONFIG-CMD | ARS configuration Command | N/A | Unicast |

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages

**Editor's Notes**　　　　　　**Editor's Actions**　　a) done

| **Comment by:** | Eunkyung Kim | **Membership Status:** | Member | **Date:** | 2010-09-09 |

| **Comment #** | **B10014** | **Document under Review:** | **P802.16m/D8** | **Ballot ID:** | **sb_16m** |

**Comment**      **Type** Technical      **Part of Dis** ☐ **Satisfied** ☐      **Page** 82      **Line** 55      **Fig/Table#** 678      **Subclause** 16.2.3

Some Message (i.e., AAI_E-MBS-REP & AAI_E-MBS-RSP) should be defined in the Table 678 - MAC Control Messages.

**Suggested Remedy**

[add the following rows in Table 678 - MAC Control Messages]

```
-----------------------------------------------------------------------------------------------------------------
| No.   | Functional Areas   | Message names   | Message Description   | Security         | Connection |
-----------------------------------------------------------------------------------------------------------------
| ...   | ....               | ......          | ......                | ......           | ......     |
-----------------------------------------------------------------------------------------------------------------
```
<ins>
```
| xx    | E-MBS              | AAI_E-MBS-REP   | E-MBS Report          | Encrypted/ICV    | Unicast    |
-----------------------------------------------------------------------------------------------------------------
| xx    | E-MBS              | AAI_E-MBS-RSP   | E-MBS Response        | Encrypted/ICV    | Unicast    |
-----------------------------------------------------------------------------------------------------------------
```
</ins>

**GroupResolution**                    **Decision of Group:**   **Agree**

[add the following rows in Table 678 - MAC Control Messages]

```
-----------------------------------------------------------------------------------------------------------------
| No.   | Functional Areas   | Message names   | Message Description   | Security         | Connection |
-----------------------------------------------------------------------------------------------------------------
| ...   | ....               | ......          | ......                | ......           | ......     |
-----------------------------------------------------------------------------------------------------------------
```
<ins>
```
| xx    | E-MBS              | AAI_E-MBS-REP   | E-MBS Report          | Encrypted/ICV    | Unicast    |
-----------------------------------------------------------------------------------------------------------------
| xx    | E-MBS              | AAI_E-MBS-RSP   | E-MBS Response        | Encrypted/ICV    | Unicast    |
-----------------------------------------------------------------------------------------------------------------
```
</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages

**Editor's Notes**          **Editor's Actions**     a) done

**2010/10/06**                                              **IEEE 802.16-10/0047r4**

|  |  |  |  |
|---|---|---|---|
| **Comment by:** | Joey  Chou | **Membership Status:** Member | **Date:** 2010-09-08 |

| **Comment #** B10015 | **Document under Review:** P802.16m/D8 | **Ballot ID:** sb_16m |
|---|---|---|

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 82     **Line** 56     **Fig/Table#**     **Subclause** 16.2.3.1

Propose to co-locate Network Entry / Re-entry Messages ASN.1 code and message tables in 16.2.3.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1190.doc or later version

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause 16.2.3; MAC Control Messages; RNG-REQ; ASN.1

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment  by:**          Joey   Chou          **Membership Status:**   Member          **Date:** 2010-09-08

**Comment #  B10016**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☐  **Satisfied** ☐          **Page** 82          **Line** 56          **Fig/Table#**          **Subclause** 16.2.3.3

The  MAC-Control-Message structure in Annex R.2 is stable, and can be moved to 16.2.3

**Suggested Remedy**

Adopt contribution C802.16m-10/1191.doc or later version

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause 16.2.3; MAC Control Messages; RNG-REQ; ASN.1

**Editor's Notes**                    **Editor's Actions**      b) none needed

**Comment by:**     Kiseon Ryu          **Membership Status:**   Member          **Date:** 2010-09-09

**Comment #**  **B10017**                **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**      **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐      **Page** 83     **Line** 38      **Fig/Table#** 679     **Subclause** 16.2.3.1

AMS MAC Address in the AAI_RNG-REQ message is used to identify the AMS in the legacy network mode instead of AMSID* (for initial network entry), CRID (for recovery from coverage loss), or DID (in idle mode). Previous STID and Serving ABSID uniquely identify the AMS performing uncoordinated HO regardless of legacy network mode because STID is managed at ABS not at ASN-GW. No reason to include AMS MAC Address in the AAI_RNG-REQ message in case of uncoordinated HO.

**Suggested Remedy**

Modify the text as follows.

#### Table 679—AAI-RNG-REQ message Field Descriptions

| | | | | |
|---|---|---|---|---|
| O | AMS MAC address | 48 | AMS's real MAC address | In the legacy network mode it shall be included when the AMS is attempting network entry, location update, <u>or</u> network reentry <u>from idle mode</u> ~~or un coordinated handover~~. |

**GroupResolution**                **Decision of Group:**   **Agree**

Modify the text as follows.

#### Table 679—AAI-RNG-REQ message Field Descriptions

| | | | | |
|---|---|---|---|---|
| O | AMS MAC address | 48 | AMS's real MAC address | In the legacy network mode it shall be included when the AMS is attempting network entry, location update, <u>or</u> network reentry <u>from idle mode</u> ~~or un coordinated handover~~. |

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; RNG-REQ

**Editor's Notes**                **Editor's Actions**     a) done

The tables from this comment are already covered in comment B031

**Comment by:**     Giwon  Park          **Membership Status:**   Member          **Date:** 2010-09-09

**Comment #**  **B10018**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 86     **Line** 15     **Fig/Table#** 679     **Subclause** 16.2.3.1

The size of paging carrier index is not 4bit but 6bit.

**Suggested Remedy**

Change the size of paging carrier index (4bit) to 6bit.

**GroupResolution**          **Decision of Group:**   **Agree**

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; RNG-REQ

**Editor's Notes**          **Editor's Actions**     a) done

The tables from this comment are already covered in comment B031

| **Comment by:** | Jeongho Park | | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #** **B10019**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 87   **Line** 48   **Fig/Table#** 679   **Subclause** 16.2.3.1

D8 has a field in RNG-REQ message for reporting its calculated power offset value - "Initial Offset for uplink power control (OffsetIInitial)".
This field has 5 bits but the range spans from -15~26 dB, which requires 42 resolution with 1dB.
This is not correct.

**Suggested Remedy**

Change line 47~49 as follows:

```
Initial Offset for        |  5 | The bit size represents power level        | ..........
uplink power control  |     | ranging from -15dB (0x00) to 2616dB (0x1F)    | .........
(OffsetIInitial)       |     | with 1dB step                                 | ...........
```

**GroupResolution**          **Decision of Group:**   **Agree**

Change line 47~49 as follows:

```
Initial Offset for        |  5 | The bit size represents power level        | ..........
uplink power control  |     | ranging from -15dB (0x00) to 2616dB (0x1F)    | .........
(OffsetIInitial)       |     | with 1dB step                                 | ...........
```

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; RNG-REQ

**Editor's Notes**          **Editor's Actions**     a) done

The tables from this comment are already covered in comment B031

| Comment by: | YoungKyo Baek | Membership Status: | Member | Date: | 2010-09-09 |

| Comment # **B10020** | Document under Review: **P802.16m/D8** | Ballot ID: **sb_16m** |

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 88   **Line** 11   **Fig/Table#**   **Subclause** 16.2.3.2

Some descriptions refers to the old term 'HO process optimization parameter' for 'reentry process optimization parameter' included in AAI-RNG-RSP.
Need to replace them with 'reentry process optimization'.


**Suggested Remedy**

[line 11,page 88]
The AAI-RNG-RSP message shall be encrypted and not contain CMAC Tuple, when the ABS notifies the
AMS through the <ins>reentry</ins> <del>HO</del> Process Optimization parameter that the AAI-PKM-REQ/RSP sequence may be
omitted for the current HO reentry attempt, or when the ABS wishes to respond to the acknowledged AAI-RNGREQ
message containing a valid CMAC.

[line 5,page 289]
It is also issued when the <ins>reentry</ins> <del>HO</del> Process Optimization Bit #1 of the AAI-RNG-RSP message is set to one
(i.e., 'omit PKM authentication phase') during HO or network reentry.

[line 36,page 289]
This event is issued when the AMS receives an AAI-RNG-RSP message including <ins>reentry</ins> <del>HO</del> Process
Optimization Bit #1 set to one (i.e., 'omit PKM authentication phase') during HO or network re-entry from Idle mode.

[line 47,page 323]
If T-ABS is capable of identifying AMS and retrieving its context, it may inform AMS to skip certain network reentry steps using
"<ins>reentry</ins> <del>HO</del> process Optimization" bitmap in AAI-RNG-RSP.

[line 20,page 464]
The timer starts upon the completion of the initial network entry, identified by the completion of AAI-REG-REQ/AAI-REG-RSP
handshake, or the completion of network reentry, according to the <ins>reentry</ins> <del>HO</del> Process Optimization in
AAI-RNG-RSP message.

[line 51,page 465]
Based on AMS's relevant context retained at the network, the T-ABS shall place in AAI-RNG-RSP <ins> a reentry</ins> <del>an
HO</del> Process Optimization parameter indicating which reentry MAC control messages may be omitted.


**GroupResolution**                           **Decision of Group:   Principle**

[line 11,page 88]
The AAI-RNG-RSP message shall be encrypted and not contain CMAC Tuple, when the ABS notifies the
AMS through the <ins>Reentry</ins> <del>HO</del> Process Optimization parameter that the AAI-PKM-REQ/RSP sequence may be
omitted for the current HO reentry attempt, or when the ABS wishes to respond to the acknowledged AAI-RNGREQ
message containing a valid CMAC.

[line 5,page 289]
It is also issued when the <ins>Reentry</ins> <del>HO</del> Process Optimization Bit #1 of the AAI-RNG-RSP message is set to one
(i.e., 'omit PKM authentication phase') during HO or network reentry.

[line 36,page 289]
This event is issued when the AMS receives an AAI-RNG-RSP message including <ins>Reentry</ins> <del>HO</del> Process
Optimization Bit #1 set to one (i.e., 'omit PKM authentication phase') during HO or network re-entry from Idle mode.

[line 47,page 323]
If T-ABS is capable of identifying AMS and retrieving its context, it may inform AMS to skip certain network reentry steps using
"<ins>Reentry</ins> <del>HO</del> <del>process</del><ins>Process</ins> Optimization" bitmap in AAI-RNG-RSP.

[line 20,page 464]
The timer starts upon the completion of the initial network entry, identified by the completion of AAI-REG-REQ/AAI-REG-RSP
handshake, or the completion of network reentry, according to the <ins>Reentry</ins> <del>HO</del> Process Optimization in
AAI-RNG-RSP message.

[line 51,page 465]
Based on AMS's relevant context retained at the network, the T-ABS shall place in AAI-RNG-RSP <ins> a Reentry</ins> <del>an
HO</del> Process Optimization parameter indicating which reentry MAC control messages may be omitted.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; RNG-RSP

**Editor's Notes**                    **Editor's Actions**    a) done

**Comment  by:**                    Jin  Lee            **Membership Status:**   Member                      **Date:**  ?

**Comment #  B10021**            **Document under Review:**  **P802.16m/D8**            **Ballot ID:**  **sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☐   **Satisfied** ☐      **Page** 91      **Line** 16      **Fig/Table#** 680      **Subclause**  16.2.3.2

If Bit #2 of 'Reentry process optimization' in AAI-RNG-RSP is set to 1, AMS does not need to exchange AAI-REG-REQ/RSP and higher layer protocol triggering (for IP address refresh). However, if this Bit#2 is set to 0, it is not clear whether AMS needs to exchange AAI-REG-REQ/RSP or to trigger higher layer protocol.

**Suggested Remedy**

Discuss and adopt contribution C802.16m-10/1133 or its latest  version.

**GroupResolution**                    **Decision of Group:**   **Agree**

Adopt contribution C802.16m-10/1133

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; RNG-RSP

**Editor's Notes**                    **Editor's Actions**     a) done

The tables from this comment are already covered in comment B032 and B036

| Comment by: | Eunkyung Kim | | Membership Status: | Member | Date: | 2010-09-09 |

| Comment # | B10022 | | Document under Review: | P802.16m/D8 | | Ballot ID: | sb_16m |

**Comment**   **Type** Technical   **Part of Dis** ☐   **Satisfied** ☐   **Page** 93   **Line** 31   **Fig/Table#** 680   **Subclause** 16.2.3.2

To be clear, the E-MBS Zone ID is transmitted in the response to either "Success of Idle mode location update" or "network re-entry,"

**Suggested Remedy**

[Adopt the following change in the column "Condictions" in line 31-38, page 93 in P802.16m/D8]

Presented only if the <ins>either</ins> Location Update Response = 0x00 (Success of Idle Mode Location Update) <del>and</del><ins>or</ins>
network re-entry <del>for</del><ins>from</ins> HO procedure<ins>, idle mode, DCR mode, coverage loss, or detection of the different ABS restart count</ins> if it needs to update.

**GroupResolution**                    **Decision of Group:**   **Principle**

[Adopt the following change in the column "Conditions" in line 31-38, page 93 in P802.16m/D8]

Presented <del>only if the</del> <ins>when</ins> Location Update Response = 0x00 (Success of Idle Mode Location Update) <del>and</del><ins>or</ins>
network re-entry <del>for</del><ins>from</ins> HO procedure<ins>.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; RNG-RSP

**Editor's Notes**                    **Editor's Actions**      a) done

The tables from this comment are already covered in comment B032

| Comment by: | Hyunkyu Yu | | Membership Status: | Member | | Date: | 2010-09-09 |

| Comment # | **B10023** | | | Document under Review: | **P802.16m/D8** | | Ballot ID: | **sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☐   **Satisfied** ☐   **Page** 98    **Line** 6    **Fig/Table#** 681    **Subclause** 16.2.3.3

In AAI-RNG-ACK message, the description about "Timing offset adjustment" is not clear.

**Suggested Remedy**

[Change the text (value/note) in page 98, line 6, table 681, subclause 16.2.3.3]

Amount of <del>advance</del> time required to adjust AMS transmission.
Signed in units of 1/Fs.
The AMS shall advance its transmission time if the value is negative <ins>(MSB = 0b1)</ins> and delay its transmission time if the value is positive <ins>(MSB = 0b0)</ins>.

**GroupResolution**        **Decision of Group:**   **Agree**

[Change the text (value/note) in page 98, line 6, table 681, subclause 16.2.3.3]

Amount of <del>advance</del> time required to adjust AMS transmission.
Signed in units of 1/Fs.
The AMS shall advance its transmission time if the value is negative <ins>(MSB = 0b1)</ins> and delay its transmission time if the value is positive <ins>(MSB = 0b0)</ins>.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; RNG-ACK

**Editor's Notes**        **Editor's Actions**    a) done

The tables from this comment are already covered in comment B033

| **Comment by:** | Hyunkyu Yu | | **Membership Status:** | Member | | **Date:** | 2010-09-09 |

| **Comment #** **B10024** | | **Document under Review:** **P802.16m/D8** | | **Ballot ID:** **sb_16m** |

**Comment**  **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 100   **Line** 41   **Fig/Table#** 683   **Subclause** 16.2.3.5

The number of bits for "DL MIMO mode" in AAI-SBC-REQ/REP is not correct.

**Suggested Remedy**

Remedy-1: change the number of bits for "DL MIMO mode" from 3 to 6 in page 100, line 41, subclause 16.2.3.5.

Remedy-2: change the number of bits for "DL MIMO mode" from 3 to 6 in page 103, line 45, subclause 16.2.3.6.

**GroupResolution**                **Decision of Group:**   **Agree**

Remedy-1: change the number of bits for "DL MIMO mode" from 3 to 6 in page 100, line 41, subclause 16.2.3.5.

Remedy-2: change the number of bits for "DL MIMO mode" from 3 to 6 in page 103, line 45, subclause 16.2.3.6.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; SBC-REQ

**Editor's Notes**             **Editor's Actions**     a) done

The tables from this comment are already covered in comment B034

**Comment  by:**          Joey   Chou          **Membership Status:**   Member          **Date:** 2010-09-08

**Comment #  B10025**          **Document under Review:** **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 103   **Line** 22     **Fig/Table#** 684     **Subclause** 16.2.3.6

Wrong reference

**Suggested Remedy**

See table <del>696</del> <insert>697</insert>

**GroupResolution**          **Decision of Group:**   **Agree**

See table <del>696</del> <insert>697</insert>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; SBC-RSP

**Editor's Notes**          **Editor's Actions**     a) done

The tables from this comment are already covered in comment B034

| | | | | | |
|---|---|---|---|---|---|
| **Comment by:** | Inuk Jung | | **Membership Status:** Member | | **Date:** 2010-09-09 |

**Comment #** **B10026**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 106     **Line** 1     **Fig/Table#**     **Subclause** 16.2.3.7

Table reformatting of AAI_SON-ADV MAC message for better reliability.

**Suggested Remedy**

Adopt proposed text in contribution IEEE C802.16m-10/1047 or its latest version

**GroupResolution**                **Decision of Group:**   **Principle**

Adopt proposed text in contribution IEEE C802.16m-10/1047r5

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; SON-ADV

**Editor's Notes**               **Editor's Actions**     b) none needed

Same as B010

| **Comment by:** | Joey Chou | | **Membership Status:** | Member | | **Date:** 2010-09-08 |

| **Comment #** B10027 | | **Document under Review:** P802.16m/D8 | | **Ballot ID:** sb_16m |

**Comment**  **Type** Technical  **Part of Dis** ☐  **Satisfied** ☐  **Page** 106  **Line** 17  **Fig/Table#** 685  **Subclause** 16.2.3.7

Missing size definitions for many SON parameters

**Suggested Remedy**

Provide size definitions

**GroupResolution**  **Decision of Group:** **Principle**

Same as resolution of comment #10026
Adopt proposed text in contribution IEEE C802.16m-10/1047r5

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; SON-ADV

**Editor's Notes**  **Editor's Actions**  b) none needed

Same as B010
The tables from this comment are already covered in comment B10026

| **Comment by:** | Youngbin Chang | **Membership Status:** Member | **Date:** 2010-09-09 |

**Comment #** **B10028**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 107     **Line**     **Fig/Table#** 686     **Subclause** 16.2.3.8

In the REG-REQ/RSP, only capability parameters on ARQ are necessary. Others should be negotiated during DSA-REQ/RSP

**Suggested Remedy**

Adopt the proposed text in C802.16m-09/1238 or its latest version.

**GroupResolution**          **Decision of Group:**   **Agree**

Adopt the proposed text in C802.16m-09/1238.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; REG-REQ

**Editor's Notes**          **Editor's Actions**     a) done

The tables from this comment are already covered in comment B035

| **Comment by:** | YoungKyo Baek | **Membership Status:** Member | **Date:** 2010-09-09 |
|---|---|---|---|

**Comment #** **B10029**　　　　　　　　**Document under Review:** **P802.16m/D8**　　　　　　**Ballot ID:** **sb_16m**

**Comment**　**Type** Technical　**Part of Dis** ☐　**Satisfied** ☐　**Page** 107　**Line** 1　**Fig/Table#** 686　**Subclause** 16.2.3.8

AMS's capabilities are negotiated through  SBC and REG messages during the network entry procedure.
Since DCR mode is optional feature, some AMS or network doesn't want to support DCR mode.
Hence, we suggest adding  this item to the REG capability negotiation parameter list.

**Suggested Remedy**

Adopt the proposed text in contribution C802.16m-10/1017 or its later version.

**GroupResolution**　　　　　　　　**Decision of Group:**　**Disagree**

**Reason for Group's Decision/Resolution**

Indication in SFH is sufficient indication of feature support.

**Group's Notes**

Clause 16.2.3; MAC Control Messages; REG-REQ

**Editor's Notes**　　　　　　　**Editor's Actions**　　b) none needed

| **Comment  by:** | YoungKyo  Baek | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #  B10030**               **Document under Review:  P802.16m/D8**               **Ballot ID:  sb_16m**

**Comment**   **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 109   **Line** 22      **Fig/Table#** 686      **Subclause** 16.2.3.8

AMS's capabilities are negotiated through  SBC and REG messages during the network entry procedure.
Item 'Frame configuration to support legacy' is included in AAI_REG-REQ but 5 MHz and 10 MHz only are incorporated.
Hence, we suggest adding 8.75 and 7 MHz cases also .

**Suggested Remedy**

Adopt the proposed text in contribution C802.16m-10/1019 or its later version.

**GroupResolution**               **Decision of Group:**   **Principle**

Adopt the proposed text in contribution C802.16m-10/1019r2.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; REG-REQ

**Editor's Notes**               **Editor's Actions**     a) done

The tables from this comment are already covered in comment B035

**Comment  by:**　　　YoungKyo  Baek　　　　　　　**Membership Status:**　Member　　　　　**Date:** 2010-09-09

**Comment #**  **B10031**　　　　　　　　**Document under Review:**  **P802.16m/D8**　　　　　**Ballot ID:**  **sb_16m**

**Comment**　　　**Type** Technical　　　**Part of Dis** ☐ **Satisfied** ☐　　　**Page** 111　　**Line** 6　　　　**Fig/Table#** 686　　　**Subclause** 16.2.3.8

CS type which AMS/network supports are negotiated by AAI_REG-REQ/RSP message.
However, upto now the size of CS type is not decided yet.( 16 or 32 bit).
Bit #16 ~ bit #31 are not used but reserved. and we don't need to keep this 16bits reservation for further usage.
16bits is enough for CS type.


**Suggested Remedy**

[Table 686 AAI-REG-REQ  line6 ,page 111]


CS type　| 16 <del>or 32</del> |　 A bit set to "1" Indicates which CS Type the AMS supports  | .....
　　　　　|　　　　　　　　　　|　　　　　　Bit #0: Reserved　　　　　　　　　　　　　　　|......
　　　　　|　　　　　　　　　　|　　　　　　.......　　　　　　　　　　　　　　　　　　　|......
　　　　　|　　　　　　　　　　|　　　　　　.......　　　　　　　　　　　　　　　　　　　|......
　　　　　|　　　　　　　　　　|　　　　　　Bit #15: Multiprotocol flow, IPv4 or IPv6 Traffic　　　|......
　　　　　|　　　　　　　　　　|　　　<del>　Bit #16 - Bit #31 Reserved　　　</del>　　　|......


[Table 687 AAI-REG-RSP  line35 ,page 114]


CS type　| 16 <del>or 32</del> |　 A bit set to "1" Indicates which CS Type the　　　　　　| .....
　　　　　|　　　　　　　　　　|　　　<ins>ABS</ins><del>AMS</del> supports　　　　　　　|......
　　　　　|　　　　　　　　　　|　　　　　　Bit #0: Reserved　　　　　　　　　　　　|......
　　　　　|　　　　　　　　　　|　　　　　　.......　　　　　　　　　　　　　　　　　|......
　　　　　|　　　　　　　　　　|　　　　　　Bit #15: Multiprotocol flow, IPv4 or IPv6 Traffic　　|......
　　　　　|　　　　　　　　　　|　　　<del>　Bit #16 - Bit #31 Reserved　　　</del>　　　|......

**GroupResolution**　　　　　　　　　**Decision of Group:**　**Agree**

[Table 686 AAI-REG-REQ  line6 ,page 111]


CS type　| 16 <del>or 32</del> |　 A bit set to "1" Indicates which CS Type the AMS supports  | .....
　　　　　|　　　　　　　　　　|　　　　　　Bit #0: Reserved　　　　　　　　　　　　　|......
　　　　　|　　　　　　　　　　|　　　　　　.......　　　　　　　　　　　　　　　　　　|......
　　　　　|　　　　　　　　　　|　　　　　　.......　　　　　　　　　　　　　　　　　　|......
　　　　　|　　　　　　　　　　|　　　　　　Bit #15: Multiprotocol flow, IPv4 or IPv6 Traffic　　|......
　　　　　|　　　　　　　　　　|　　　<del>　Bit #16 - Bit #31 Reserved　　　</del>　　　|......

[Table 687 AAI-REG-RSP  line35 ,page 114]

```
CS type    | 16 <del>or 32</del>  |   A bit set to "1" Indicates which CS Type the            | .....
           |                      |       <ins>ABS</ins><del>AMS</del> supports              |......
           |                      |           Bit #0: Reserved                               |......
           |                      |           .......                                        |......
           |                      |           Bit #15: Multiprotocol flow, IPv4 or IPv6 Traffic  |......
           |                      |       <del>  Bit #16 - Bit #31 Reserved      </del>      |......
```

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; REG-REQ

**Editor's Notes**                   **Editor's Actions**    a) done

The tables from this comment are already covered in comment B035

**Comment  by:**          YoungKyo  Baek                    **Membership Status:**   Member          **Date:** 2010-09-09

**Comment #  B10032**                    **Document under Review:  P802.16m/D8**                **Ballot ID:  sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 112    **Line** 37      **Fig/Table#** 687      **Subclause**  16.2.3.9

CRID is mandatorily to be included only when CRID is available in advanced network mode(i.e. network configuration bit in SFH = 0b0).
I suggest adding 'to be included when AMS is attaching in the advanced network mode(i.e. network configuration bit in SFH = 0b0)' to
the condition column.


**Suggested Remedy**

[Table 687 AAI-REG-RSP  line37, page 112]


CRID | 72  |   AMS identifier which the AMS has been      | <ins> to be included when AMS is attaching
       |      |    assigned for coverage loss or DCR mode |       in the advanced network mode
       |      |                                                                  |        (i.e. network configuration bit in SFH =  0b0)</ ins>


**GroupResolution**                          **Decision of Group:   Principle**

[Table 687 AAI-REG-RSP  line37, page 112]


CRID | 72  |   AMS identifier which the AMS has been      | <ins> Shall be included when AMS is attaching
       |      |    assigned for coverage loss or DCR mode |       in the advanced network mode
       |      |                                                                  |        (i.e. network configuration bit in SFH =  0b0)</ ins>


**Reason for Group's Decision/Resolution**


**Group's Notes**
Clause 16.2.3; MAC Control Messages; REG-RSP

**Editor's Notes**                    **Editor's Actions**      a) done

The tables from this comment are already covered in comment B035

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Joey Chou | **Membership Status:** Member | **Date:** 2010-09-08 |

**Comment #** B10033          **Document under Review:** P802.16m/D8          **Ballot ID:** sb_16m

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 116   **Line** 35   **Fig/Table#** 687   **Subclause** 16.2.3.9

CLC limit is an array

**Suggested Remedy**

Adopt contribution C802.16m-10/1193.doc or later version

**GroupResolution**          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

No technical change is proposed.

**Group's Notes**

Clause 16.2.3; MAC Control Messages; REG-RSP

**Editor's Notes**          **Editor's Actions**     b) none needed

| | | | |
|---|---|---|---|
| **Comment by:** | Jaesun Cha | **Membership Status:** Member | **Date:** ? |

**Comment #** **B10034**              **Document under Review:** **P802.16m/D8**              **Ballot ID:** **sb_16m**

**Comment**  **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 118  **Line** 47      **Fig/Table#** 689    **Subclause** 16.2.3.10

In case of ABS-initiaged HO, if S-ABS receives AAI-HO-IND with HO event code 0b11 and SFH mismatch indication 0b1, it may send another AAI-HO-CMD message which includes up-to-date delta SFH information of each recommended T-ABS and delta SFH information should be encoded by referring to AAI-NBR-ADV change count of AMS. But, the S-ABS deos not know the AAI-NBR-ADV change count because it is not included in AAI-HO-IND message.

**Suggested Remedy**

[Add the following row after 'SFH mismatch indication' field in Table 689]

```
---------------------------------------------------------------------------------------------------------------
| AAI-NBR-ADV Change count | 8 | AAI-NBR-ADV change count | Shall be present if SFH mismatch |
|                          |   | received from the S-ABS  | indication = 1                   |
---------------------------------------------------------------------------------------------------------------
```

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 2-3-0

An AMS needs to receive the latest AAI-NBR-ADV from an serving ABS after sending AAI-HO-IND message. The serving ABS does not have to keep all previously sent AAI-NBR-ADV to solve this problem.

**Group's Notes**

Clause 16.2.3; MAC Control Messages; HO-IND; Handover

**Editor's Notes**            **Editor's Actions**     b) none needed

**Comment by:**   Soojung  Jung            **Membership Status:**  Member        **Date:** 2010-09-09

**Comment #  B10035**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐  **Satisfied** ☐   **Page** 119   **Line** 7   **Fig/Table#** 690   **Subclause** 16.2.3.11

The bit size of change count for AAI_NBR-ADV is 3 not 8

**Suggested Remedy**

[Modify texts in Table 690, on page 119 line 7 as follows]
```
-------------------------------------------------------------------------------------------------------------------
AAI-NBR-ADV  Change Count |<ins>3 </ins><del>8</del> |  AAI-NBR-ADV change count    | shall be included
                          |                          | last received from the S-ABS    |when N_New_ABS
                          |                          |                               | _Index>0
-------------------------------------------------------------------------------------------------------------------
```

[Modify texts in Table 715, on page 182 line 47 as follows]
```
-------------------------------------------------------------------------------------------------------------------
 changeCount |<ins>3 </ins><del>8</del> |  Change count in AAI-NBR-ADV for the  |  This is only transmitted o
             |                          |  following BS_index                   |nly when diversitySetNum
             |                          |                                       | is higher than 0
-------------------------------------------------------------------------------------------------------------------
```

[Modify texts in Table 757, on page 252 line 36 as follows]
```
-------------------------------------------------------------------------------------------------------------------
o | M |Configuration Change Count |<ins>3 </ins><del>8</del> |                       | present when Number
  |   | for AAI_NBR-ADV           |                          |                       | of BS Indices>0
  |   |                           |                          |                       |
  |   |                           |                          |                       |
  |   |                           |                          |                       |
-------------------------------------------------------------------------------------------------------------------
```

**GroupResolution**                    **Decision of Group:**  **Agree**

[Modify texts in Table 690, on page 119 line 7 as follows]
```
-------------------------------------------------------------------------------------------------------------------
AAI-NBR-ADV  Change Count |<ins>3 </ins><del>8</del> |  AAI-NBR-ADV change count    | shall be included
                          |                          | last received from the S-ABS    |when N_New_ABS
                          |                          |                               | _Index>0
-------------------------------------------------------------------------------------------------------------------
```

[Modify texts in Table 715, on page 182 line 47 as follows]

```
-----------------------------------------------------------------------------------------------------------------
 changeCount |<ins>3 </ins><del>8</del> |  Change count in AAI-NBR-ADV for the  | This is only transmitted o
             |                           | following BS_index                    |nly when diversitySetNum
             |                           |                                       | is higher than 0
-----------------------------------------------------------------------------------------------------------------
```

[Modify texts in Table 757, on page 252 line 36 as follows]

```
-----------------------------------------------------------------------------------------------------------------
o | M |Configuration Change Count |<ins>3 </ins><del>8</del> |                    | present when Number
  |   | for AAI_NBR-ADV           |                          |                    | of BS Indices>0
  |   |                           |                          |                    |
  |   |                           |                          |                    |
  |   |                           |                          |                    |
-----------------------------------------------------------------------------------------------------------------
```

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; HO-REQ; Handover

**Editor's Notes**          **Editor's Actions**     a) done

The tables from this comment are already covered in comment B036, B10044 and B10075

**Comment by:**          Joey  Chou          **Membership Status:**  Member          **Date:** 2010-09-08

**Comment #**  **B10036**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 128     **Line** 25     **Fig/Table#** 692     **Subclause** 16.2.3.13

SFH Subpkt 1, SFH Subpkt 2, SFH Subpkt 3 are missing size and definitions

**Suggested Remedy**

Provide size and definition

**GroupResolution**          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

No text provided.

**Group's Notes**

Clause 16.2.3; MAC Control Messages; NBR-ADV

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment  by:**          Kiseon  Ryu                    **Membership Status:**   Member              **Date:** 2010-09-09

**Comment #  B10037**                    **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**       **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 132    **Line** 6        **Fig/Table#** 692    **Subclause** 16.2.3.13

LDM is defined only for femto ABS to reduce interference to neighbor cell and save its power. Interference to neighbor cell from femto ABS is critical only when the AMS can not perform handover and/or network entry to that femto ABS (i.e. CSG femto ABS). And AAI_NBR-ADV may include the information of OSG femto, not of CSG femto ABS.  Inclusion of LDM parameters in AAI_NBR-ADV message does not make sense because it is  useful for CSG femto ABS.

**Suggested Remedy**

Remedy 1. Remove the following text in Table 692 as follows.

Table 692—AAI-NBR-ADV parameters

| O | LDM Parameter - AI | 4 | The new AI for LDM | It shall be included when the LDM parameters are changed. It will be broadcasted for a certain duration of time as decided by the network |
| O | LDM Parameter - UAI | 8 | The new UAI for LDM | It shall be included when the LDM parameters are changed. It will be broadcasted for a certain duration of time as decided by the network |
| O | LDM Parameter - SFO | 9 | The new SFO for LDM | It shall be included when the LDM parameters are changed. It will be broadcasted for a certain duration of time as decided by the network |

Remedy 2. Modify the text in 16.4.10.2, page 848, line 20 as follows.

The Default LDM pattern(s) parameters can be pre-provisioned or unicasted to the AMS during initial network entry with the Femto ABS in the AAI-REG-RSP message. The LDM parameters can be broadcasted in AAI-NBR-ADV message, by the ABS when they are changed, for certain duration of time as decided by the network.

**GroupResolution**                          **Decision of Group:**   **Principle**

Modify the text in 16.4.10.2, page 848, line 20 as follows.

The Default LDM pattern(s) parameters can be pre-provisioned or unicasted to the AMS during initial network entry with the Femto ABS in the AAI-REG-RSP message. The LDM parameters can be broadcasted in <del>AAI-NBR-ADV</del> <ins> AAI_SON-ADV </ins>message, by the ABS when they are changed, for certain duration of time as decided by the network.

**Reason for Group's Decision/Resolution**

The changed LDM parameters are moved to AAI_SON-ADV to reduce the load on AAI_NBR-ADV and since these are logically more related to AAI_SON-ADV.

**Group's Notes**

Clause 16.2.3; MAC Control Messages; NBR-ADV

**Editor's Notes**          **Editor's Actions**      a) done

The tables from this comment are already covered in comment B037

| **Comment by:** | Joey Chou | **Membership Status:** Member | **Date:** 2010-09-08 |
|---|---|---|---|

**Comment # B10038**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 141   **Line** 30    **Fig/Table#** 695    **Subclause** 16.2.3.16

Rsp_Bitmap_Index has size Variable (Rsp_Bit map_Size) that can's be converted into ASN.1

**Suggested Remedy**

Provide size

**GroupResolution**                 **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

No provided remedy.

**Group's Notes**

Clause 16.2.3; MAC Control Messages; SCN-REP

**Editor's Notes**          **Editor's Actions**      b) none needed

| **Comment by:** | Joey Chou | **Membership Status:** | Member | **Date:** 2010-09-08 |
|---|---|---|---|---|

**Comment #** B10039          **Document under Review:** P802.16m/D8          **Ballot ID:** sb_16m

**Comment**      **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 145     **Line** 30     **Fig/Table#** 696     **Subclause** 16.2.3.18

The size of Extended CLC active bitmap of Type II CLC class with subtype 3 is variable. The not does not provide information on what size is.

**Suggested Remedy**

Change the note as the following

Setting a bit of the field to "1" indicates the corresponding AAI subframe in each CLC active cycle <del>is in CLC active interval</del>. <ins>The maximum value of CLC active cycle of Type II CLC class with subtype 3 is 4 frames. There can be up 6 subframes per frame. So, the maximum size of this bit map is 32.</ins> <del>If the CLC active cycle is x frames, and a frame consists of m AAI subframes, the length of the field shall be x x m.</del>

Change the size as the following
<del>variable</del> <ins>1..32<ins>

**GroupResolution**                    **Decision of Group:**   **Agree**

**Reason for Group's Decision/Resolution**

Change the note as the following

Setting a bit of the field to "1" indicates the corresponding AAI subframe in each CLC active cycle <del>is in CLC active interval</del>. <ins>The maximum value of CLC active cycle of Type II CLC class with subtype 3 is 4 frames. There can be up 6 subframes per frame. So, the maximum size of this bit map is 32.</ins> <del>If the CLC active cycle is x frames, and a frame consists of m AAI subframes, the length of the field shall be x x m.</del>

Change the size as the following
<del>variable</del> <ins>1..32<ins>

**Group's Notes**

Clause 16.2.3; MAC Control Messages; CLC-RSP; Co-located Coexistence

The tables from this comment are already covered in comment  B167

**2010/10/06**                                                    **IEEE 802.16-10/0047r4**

**Comment  by:**          Yeongmoon  Son          **Membership Status:**  Member          **Date:** 2010-09-09

**Comment #**  **B10040**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 161  **Line** 3     **Fig/Table#**     **Subclause** 16.2.3.25

Current MAC control message table in 16m/D8 is not clear from a readability point of view. Therefore alternative table format is suggested in this contribution, and the text changes are proposed for control messages related to Sleep Mode: AAI-SLP-REQ/RSP, AAI-TRF-IND, and AAI-TRF_IND-REQ/RSP.

**Suggested Remedy**

*[Adopt the proposed text in contribution C802.16m-10/1227 or its later version.]*

**GroupResolution**          **Decision of Group:**   Agree

*Adopt the proposed text in contribution C802.16m-10/1227*

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; SLP-REQ

**Editor's Notes**          **Editor's Actions**          a) done

**Comment by:**     Hyunkyu  Yu          **Membership Status:**   Member          **Date:** 2010-09-09

**Comment #  B10041**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page**  174   **Line**  25     **Fig/Table#**  711     **Subclause**  16.2.3.31

Reference subclause number is wrong for "SA_PreamblePartitionforBStype".

**Suggested Remedy**

Change the subclause number 16.2.6.1.2 to 16.3.5.1.2 in page 174, line 25, subclause 16.2.3.31.

**GroupResolution**                **Decision of Group:**   **Principle**

Resolved by Comment #B039:
Adopt contribution C802.16m-10/1119r3

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; SCD

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment  by:**          Heejeong   Cho                **Membership Status:**   Nonmember          **Date:**  ?

**Comment #  B10042**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**          **Type** Editorial          **Part of Dis** ☐  **Satisfied** ☐          **Page**  174   **Line**  53          **Fig/Table#**          **Subclause**  16.2.3.31

1. Two parameters (periodicityOfRngChSync and rangingPreambleCodeSync) in the AAI-SCD refer to the wrong  table number.    (in the subclause 16.2.3.31)

2. Multicast or broadcast connection is specified in 16.3.5.5.2.4, not 16.3.6.5.2.4.   (in the subclause 16.2.10)

**Suggested Remedy**

Adopt contribution C802.16m-10/1225 or later version.

**GroupResolution**                **Decision of Group:**   **Agree**

Adopt contribution C802.16m-10/1225

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; SCD

**Editor's Notes**                **Editor's Actions**     a) done

10/1225 needs cross reference (done, RGM)
The tables from this comment are already covered in comment B039

| **Comment by:** | Seunghyun Kang | **Membership Status:** | | **Date:** 2010-09-09 |

| **Comment #** **B10043** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**   **Type** Editorial   **Part of Dis** ☐ **Satisfied** ☐   **Page** 180   **Line** 33   **Fig/Table#** 713   **Subclause** 16.2.3.33

The subclause number 16.3.6.5.2.4.5 is incorrect.
The subclause number for 'Feedback Allocation A-MAP IE' is 16.3.5.5.2.4.5 in D8.

**Suggested Remedy**

In Table 713, line 33~36, modify the text as follows:
(More details can be found in <del>16.3.6.5.2.4.5</del> <ins>16.3.5.5.2.4.5</ins>.)

**GroupResolution**            **Decision of Group:**   **Agree**

In Table 713, line 33~36, modify the text as follows:
(More details can be found in <del>16.3.6.5.2.4.5</del> <ins>16.3.5.5.2.4.5</ins>.)

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; UL_POWER_ADJ

**Editor's Notes**            **Editor's Actions**      a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Taeyoung Kim | **Membership Status:** Member | **Date:** 2010-09-09 |

**Comment #** **B10044**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 181     **Line** 44     **Fig/Table#** 715     **Subclause** 16.2.3.35

Current MAC control message table in 16m/D8 is not clear from a readability point of view. Therefore alternative table format is suggested in this contribution, and the text changes are proposed for AAI-DL-IM MAC control messages.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1214 or its latest version

**GroupResolution**                    **Decision of Group:**   **Principle**

Adopt the proposed text in C802.16m-10/1214r2

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; DL-IM

**Editor's Notes**                    **Editor's Actions**     a) done

| | | | | | |
|---|---|---|---|---|---|
| **Comment by:** | Taeyoung Kim | **Membership Status:** | Member | **Date:** | 2010-09-09 |

**Comment #** **B10045**        **Document under Review:** **P802.16m/D8**        **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 188    **Line** 28    **Fig/Table#** 718    **Subclause** 16.2.3.38

Current MAC control message table in 16m/D8 is not clear from a readability point of view. Therefore alternative table format is suggested in this contribution, and the text changes are proposed for AAI-MultiBS_MIMO_FBK MAC control messages.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1215 or its latest version

**GroupResolution**        **Decision of Group:**    **Principle**

Adopt the proposed text in C802.16m-10/1215r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; MultiBS_MIMO_FBK

**Editor's Notes**        **Editor's Actions**    a) done

| **Comment by:** | Taeyoung Kim | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #** **B10046**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 190   **Line** 7     **Fig/Table#** 719     **Subclause** 16.2.3.39

Current MAC control message table in 16m/D8 is not clear from a readability point of view. Therefore alternative table format is suggested in this contribution, and the text changes are proposed for AAI-Multi_BS_MIMO-REQ MAC control messages.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1216 or its latest version

**GroupResolution**                    **Decision of Group:**   **Principle**

Adopt the proposed text in C802.16m-10/1216r2

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; MULTI_BS_MIMO-REQ

**Editor's Notes**                    **Editor's Actions**     a) done

| **Comment by:** | Taeyoung Kim | **Membership Status:** | Member | **Date:** 2010-09-09 |

| **Comment #** **B10047** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 191    **Line** 1    **Fig/Table#** 720    **Subclause** 16.2.3.40

Current MAC control message table in 16m/D8 is not clear from a readability point of view. Therefore alternative table format is suggested in this contribution, and the text changes are proposed for AAI-Multi_BS_MIMO-RSP MAC control messages.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1217 or its latest version

**GroupResolution**                **Decision of Group:**    **Agree**

Adopt the proposed text in C802.16m-10/1217

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; MULTI_BS_MIMO-RSP

**Editor's Notes**                **Editor's Actions**    a) done

| **Comment  by:** | Taeyoung  Kim | **Membership Status:** | Member | **Date:** | 2010-09-09 |

| **Comment #** | **B10048** | **Document under Review:** | **P802.16m/D8** | **Ballot ID:** | **sb_16m** |

| **Comment** | **Type** Technical | **Part of Dis** ☐ | **Satisfied** ☐ | **Page** 191 | **Line** 33 | **Fig/Table#** 721 | **Subclause** 16.2.3.41 |

Current MAC control message table in 16m/D8 is not clear from a readability point of view. Therefore alternative table format is suggested in this contribution, and the text changes are proposed for AAI-Multi_BS_SOUNDING-CAL MAC control messages.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1219 or its latest version

**GroupResolution**                    **Decision of Group:**   **Agree**

Adopt the proposed text in C802.16m-10/1219

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; MULTI_BS_SOUNDING-CAL

**Editor's Notes**              **Editor's Actions**      a) done

| | | | | | |
|---|---|---|---|---|---|
| **Comment by:** | Joey Chou | **Membership Status:** | Member | **Date:** | 2010-09-08 |

**Comment #** **B10049**     **Document under Review:** **P802.16m/D8**     **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 191     **Line** 55     **Fig/Table#** 721     **Subclause** 16.2.3.41

The definition of Sounding subband bitmap attribute is not clear. Is it a value or bitmap?

Sounding subband bitmap
Variable Max. 24
FFT size dependent

**Suggested Remedy**

Clarify its size and value

**GroupResolution**                     **Decision of Group:** **Disagree**

**Reason for Group's Decision/Resolution**

no proposed remedy

**Group's Notes**

Clause 16.2.3; MAC Control Messages; MULTI_BS_SOUNDING-CAL

**Editor's Notes**          **Editor's Actions**     b) none needed

| Comment  by: | Ping-Heng  Kuo | | Membership Status: | Member | | Date: | 2010-09-06 |

| Comment # | **B10050** | | Document under Review: | **P802.16m/D8** | | Ballot ID: | **sb_16m** |

**Comment**    **Type** Editorial    **Part of Dis** ☐  **Satisfied** ☐    **Page** 192    **Line** 7    **Fig/Table#**    **Subclause** 16.2.3.42

Wrong reference on Table of AAI-UL_MultiBS_MIMO_SBP message format. i.e. The table number should be 722 instead of 744.

**Suggested Remedy**

Modify the first sentence in 16.2.3.42 as:

"The AAI-UL_MultiBS_MIMO_SBP message format is defined in Table ~~744~~ 722."

**GroupResolution**                    **Decision of Group:**    **Agree**

Modify the first sentence in 16.2.3.42 as:

"The AAI-UL_MultiBS_MIMO_SBP message format is defined in Table ~~744~~ 722."

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; UL_MultiBS_MIMO_SBP

**Editor's Notes**                    **Editor's Actions**    a) done

**Comment  by:**          Taeyoung  Kim                    **Membership Status:**   Member              **Date:** 2010-09-09

**Comment #  B10051**                      **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**          **Type** Technical      **Part of Dis** ☐ **Satisfied** ☐      **Page** 192   **Line** 14      **Fig/Table#** 722      **Subclause** 16.2.3.42

Current MAC control message table in 16m/D8 is not clear from a readability point of view. Therefore alternative table format is suggested in this contribution, and the text changes are proposed for AAI-UL_MultiBS_MIMO-SBP MAC control messages.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1218 or its latest version

**GroupResolution**                        **Decision of Group:**   **Principle**

Adopt the proposed text in C802.16m-10/1218r2

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; UL_MultiBS_MIMO_SBP

**Editor's Notes**                    **Editor's Actions**     a) done

| **Comment by:** | Joey Chou | **Membership Status:** Member | **Date:** 2010-09-08 |
|---|---|---|---|

**Comment #** **B10052**　　　　　　**Document under Review:** **P802.16m/D8**　　　　**Ballot ID:** **sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 192　**Line** 25　　**Fig/Table#** 722　　**Subclause** 16.2.3.42

The definition of PMImin and ISL($\lambda$) attributes are not clear.

**Suggested Remedy**

Clarify its size and value

**GroupResolution**　　　　　　　　**Decision of Group:** **Disagree**

**Reason for Group's Decision/Resolution**

there is no proposed remedy

**Group's Notes**

Clause 16.2.3; MAC Control Messages; UL_MultiBS_MIMO_SBP

**Editor's Notes**　　　　　**Editor's Actions**　　b) none needed

| **Comment by:** | YoungKyo  Baek | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #** **B10053**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 192   **Line** 47   **Fig/Table#** 723   **Subclause** 16.2.3.43

For readibility we suggest  table reformatting and cleanup on AAI_PKM-REQ and AAI_PKM-RSP messages.

**Suggested Remedy**

Adopt the proposed text in contribution C802.16m-10/1240 or its later version.

**GroupResolution**                    **Decision of Group:**   **Principle**

Adopt contribution C802.16m-10/1240r3

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; PKM-REQ; Security

**Editor's Notes**               **Editor's Actions**       a) done

| **Comment by:** | Anil Agiwal | **Membership Status:** | Member | **Date:** ? |
|---|---|---|---|---|

| **Comment #** B10054 | **Document under Review:** P802.16m/D8 | **Ballot ID:** sb_16m |
|---|---|---|

**Comment**    **Type** Technical    **Part of Dis** ☐   **Satisfied** ☐    **Page** 202    **Line**    **Fig/Table#** 734    **Subclause** 16.2.3

Current MAC control message table in 16m/D8 is not clear from a readability point of view. Therefore the text changes are proposed for ARQ MAC control messages according to table format in contribution C802.16m-10/1060r6.

**Suggested Remedy**

Adopt the proposed text in contribution C802.16m-10/1094

**GroupResolution**          **Decision of Group:**   **Principle**

Adopt the proposed text in contribution C802.16m-10/1094r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; ARQ-Feedback

**Editor's Notes**          **Editor's Actions**    a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Hyunkyu Yu | **Membership Status:** Member | **Date:** 2010-09-09 |

**Comment #** **B10055**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 204   **Line** 31     **Fig/Table#**        **Subclause** 16.2.3.47.1

(1) HARQ channel mapping:

In uplink transmission, bandwidth allocation for the delay-sensitive traffic (e.g. VoIP) needs to be explicitly mapped to a flow. Otherwise, other service flows may use those resources, degrading the performance of that flow (VoIP). To guarantee the performance, we suggest mapping HARQ channels to a flow in DSx message. Note that persistent allocation cannot be always used for VoIP transmission, so we recommend adopting HARQ channel mapping concept, which is more general than just mapping persistent allocation to a flow.

(2) Padding PDU indicator:

Generally, if an ABS assigns the resource to AMS though an AMS has no data burst to be transmitted, the AMS is supposed to transmit the special data burst called padding PDU which consists of the first byte of 0xF0 and the remaining bytes of 0x00 according to padding rule of section 16.2.4.7. However, in terms of power saving problem in an AMS, the option that an AMS does not transmit the padding PDU can be considered. Therefore, this contribution proposes to add the parameter indicating whether or not an AMS transmits the padding PDU.

**Suggested Remedy**

Adopt the text proposal in IEEE C802.16m-10/0830r3 or its latest revision.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Remedy is incomplete; it introduces unspecified behaviour.

**Group's Notes**

Clause 16.2.3; MAC Control Messages; DSA-REQ

**Editor's Notes**               **Editor's Actions**     b) none needed

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Joey Chou | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #** **B10056**     **Document under Review:** **P802.16m/D8**     **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 210     **Line** 23     **Fig/Table#** 737     **Subclause** 16.2.3.47.1

Data Delivery Services parameters has only 5 values. It does not need 8 bits

**Suggested Remedy**

Size column
<del> 8 </del> <ins> 4 </ins>

Value / Note column
0: Unsolicited Grant Service
1: Real-Time Variable Rate Service
2: Non-Real-Time Variable Rate Service
3: Best Effort Service
4: Extended Real-Time Variable Rate Service
<ins> 5..15: reserved </ins>

**GroupResolution**     **Decision of Group:** **Principle**

Size column
<del> 8 </del> <ins> 3</ins>
Value / Note column
0: Unsolicited Grant Service
1: Real-Time Variable Rate Service
2: Non-Real-Time Variable Rate Service
3: Best Effort Service
4: Extended Real-Time Variable Rate Service
<ins> 5: aGP service </ins>
<ins> 6..7: reserved </ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; DSA-REQ

**Editor's Notes**     **Editor's Actions**     a) done

The tables from this comment are already covered in comment B040

**Comment by:**        Jaehyuk  Jang                **Membership Status:**  Member        **Date:** 2010-09-07

**Comment #  B10057**                **Document under Review:  P802.16m/D8**                **Ballot ID:  sb_16m**

**Comment**        **Type** Technical        **Part of Dis** ☐   **Satisfied** ☐        **Page** 210        **Line** 29        **Fig/Table#** Tabl        **Subclause** 16.2.3.47.1

The aGP service is missing in the table.


**Suggested Remedy**

[Add the following value in the field 'Type of Data Delivery Services parameter' in Table 737, pp. 210, line 29:]
0: Unsolicited Grant Service
1: Real-Time Variable Rate Service
2: Non-Real-Time Variable Rate Service
3: Best Effort Service
4: Extended Real-Time Variable Rate Service
<ins>5: aGP Service</ins>

[Add the following value in the field 'Type of Data Delivery Services parameter' in Table 783, pp. 377, line 10:]
0: Unsolicited Grant Service
1: Real-Time Variable Rate Service
2: Non-Real-Time Variable Rate Service
3: Best Effort Service
4: Extended Real-Time Variable Rate Service
<ins>5: aGP Service</ins>

**GroupResolution**                        **Decision of Group:**  **Agree**

[Add the following value in the field 'Type of Data Delivery Services parameter' in Table 737, pp. 210, line 29:]
0: Unsolicited Grant Service
1: Real-Time Variable Rate Service
2: Non-Real-Time Variable Rate Service
3: Best Effort Service
4: Extended Real-Time Variable Rate Service
<ins>5: aGP Service</ins>

[Add the following value in the field 'Type of Data Delivery Services parameter' in Table 783, pp. 377, line 10:]
0: Unsolicited Grant Service
1: Real-Time Variable Rate Service
2: Non-Real-Time Variable Rate Service
3: Best Effort Service
4: Extended Real-Time Variable Rate Service

<ins>5: aGP Service</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; DSA-REQ

**Editor's Notes**          **Editor's Actions**          a) done

The tables from this comment are already covered in comment B040

| **Comment  by:** | Joey   Chou | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #**  **B10058**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page**  211   **Line**  19     **Fig/Table#** 737     **Subclause**  16.2.3.47.1

CS Specification parameter does not need 8 bits

**Suggested Remedy**

Size column
<del> 8 </del> <ins> 5 </ins>

Value / Note  column
0: Reserved
1: Packet, IPv4
2: Packet, IPv6
3: Reserved
4: Reserved
5: Reserved
6: Reserved
7: Reserved
8: Reserved
9: Reserved
10: Reserved
11: Reserved
12: Reserved
13: Reserved
14: Packet, IPb
15: Multiprotocol flow
16-<del>255</del>   <ins> 31 </ins>Reserved
(b: SDUs for service flows of this CS type may carry either IPv4 or IPv6 in the header-compressed payload)
<ins> 5..15: reserved </ins>

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 0-2-0.

To ease interworking between 16e and 16m devices, keeping the size could be better.  Reduction of three bits will not give much

benefit.

| Comment by: | Joey Chou | **Membership Status:** Member | **Date:** 2010-09-08 |

**Comment #** **B10059**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

| Comment | **Type** Technical | **Part of Dis** ☐ **Satisfied** ☐ | **Page** 211 | **Line** 19 | **Fig/Table#** 737 | **Subclause** 16.2.3.47.1 |

CS parameter encoding rules came from 163 (see below) that are needed for compound TLV, and is not needed for 16m

11.13.18.2 CS parameter encoding rules
Each CS defines a set of parameters that are encoded within a subindex under the "cst" values listed below.
In the cases of IP over IEEE 802.3, the relevant IP and IEEE 802.3 parameters shall be included in the
DSx-REQ message.

**Suggested Remedy**
Remove CS parameter encoding rules

**GroupResolution**                    **Decision of Group:**   **Principle**

Resolved by B181:

Discuss and adopt a contribution IEEE 802.16m-10/1236r3.

**Reason for Group's Decision/Resolution**

The tables from this comment are already covered in comment B040

| | | | | | |
|---|---|---|---|---|---|
| **Comment by:** | Joey  Chou | | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #  B10060**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐     **Satisfied** ☐     **Page** 213     **Line** 38     **Fig/Table#** 737     **Subclause** 16.2.3.47.1

ROHC MRRU needs clarification

**Suggested Remedy**

Value column

The size of the largest reconstructed unit in octets that the decompressor is expected to reassemble from segments
0: no segmentation
 <del>Otherwise </del><ins> 1..65535</ins> : MRRU <ins>Maximum reconstructed reception unit</ins>

**GroupResolution**          **Decision of Group:**   **Agree**

Value column

The size of the largest reconstructed unit in octets that the decompressor is expected to reassemble from segments
0: no segmentation
 <del>Otherwise </del><ins> 1..65535</ins> : MRRU <ins>Maximum reconstructed reception unit</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; DSA-REQ

**Editor's Notes**          **Editor's Actions**     a) done

The tables from this comment are already covered in comment B040

**Comment  by:**      Jaehyuk  Jang        **Membership Status:**    Member       **Date:** 2010-09-07

**Comment #**   **B10061**        **Document under Review:**   **P802.16m/D8**      **Ballot ID:**   **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐   **Satisfied** ☐    **Page** 215    **Line** 31     **Fig/Table#** Tabl    **Subclause** 16.2.3.47.1

'Backoff scaling factor' field includes in the DSx messages, but there is no description how to use it. Moreover by using binary exponential backoff, maximum 2^16=65536 size of backoff start/end window can be used, and it is quite enough for backoff operation. No need to introduce unnecessary optional field.

**Suggested Remedy**

[Adopt the following 4 remedies:]

[Remedy #1: Remove 'Backoff Scaling Factor' field in Table 737, pp. 215, line 31.]

[Remedy #2: Remove 'Backoff Scaling Factor' field in Table 740, pp. 228, line 19.]

[Remedy #3: Remove 'Backoff Scaling Factor' field in Table 783, pp. 377, line 52.]

[Remedy #4: Modify the sentence in pp. 360, line 63:]
The ABS transmits initial connection priority parameters - initial and maximum window sizes <del>and backoff window scaling factor</del> - in DSx-REQ and/or DSx-RSP messages

**GroupResolution**             **Decision of Group:**   **Principle**

Resolved by comment B10116:

The connection priority is defined by the tuple of <del>contention window parameters and the number of retries.</del> <ins>initial and maximum window sizes and a backoff window scaling factor. The backoff scaling factor is the base of the exponent in an exponential backoff. For instance, with a backoff scaling factor of B, an initial window size of S will increase to B*S at backoff stage 1, B*B*S at backoff stage 2, B*B*B*S at backoff stage 3, and so on. Note that for the specific value of B=2, this is precisely the binary exponential backoff.</ins> The ABS transmits initial connection priority parameters - initial and maximum window sizes and backoff window scaling factor - in DSx-REQ and/or DSx-RSP messages. <ins>If the DSx messages does not include backoff window parameters (BR backoff start, BR backoff end, and backoff window scaling factor), the values specified in the S-SFH SP3 shall be used for the service flow, with a default backoff scaling

factor of 2 (indicating a binary exponential backoff). Otherwise, the values in the DSx messages shall override the values in the S-SFH SP3 for the service flow.</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; DSA-REQ

**Editor's Notes**          **Editor's Actions**      b) none needed

The tables from this comment are already covered in comment B040 and B041

**Comment  by:**          Joey  Chou          **Membership Status:**   Member          **Date:** 2010-09-08

**Comment #  B10062**                 **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 215   **Line** 34   **Fig/Table#** 737   **Subclause** 16.2.3.47.1

The definition of Group Parameter Create/Change attributes are not clear.

**Suggested Remedy**
Clarify Group Parameter Create/Change attributes

**GroupResolution**          **Decision of Group:**   **Principle**

Insert the following text in value/note:
Refer to 16.2.12.8.6

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; DSA-REQ

**Editor's Notes**          **Editor's Actions**      a) done

The tables from this comment are already covered in comment B040

| Comment by: | Joey Chou | Membership Status: | Member | Date: | 2010-09-08 |

| Comment # | **B10063** | Document under Review: | **P802.16m/D8** | Ballot ID: | **sb_16m** |

**Comment**  **Type** Technical   **Part of Dis** ☐  **Satisfied** ☐   **Page** 219   **Line** 32   **Fig/Table#** 738   **Subclause** 16.2.3.47.2

Num of Multicast Group ID is not a structure, so A) is not needed in Multicast Group ID

If Multicast Group ID is the number of Multicast Group ID to add, then should Multicast Group ID be a list to list multiple Multicast Group ID

**Suggested Remedy**

| M/O | Attributes / Array of attributes | Size (bits) | Value / Note | Conditions |
|---|---|---|---|---|
| <del> | | | | |
| O | Num of Multicast Group ID to add | 4 | Number of Multicast Group IDs to add | Present only if Num of Multicast Group ID to be added > 0 |
| </del> | | | | |
| <insert> | | | | |
| O | For (i=0 ; i < 15 ; i++) { | | | Present if ABS wants to add multicast group ID list |
| </insert> | | | | |
| M | <del>A) </del> Multicast Group ID  to be added | 12 | Multicast Group ID to be added | <del> Present whenNum of Multicast Group ID > 0  </del> |
| <insert> } </insert> | | | | |

**GroupResolution**                    **Decision of Group:**   **Agree**

| M/O | Attributes / Array of attributes | Size (bits) | Value / Note | Conditions |
|---|---|---|---|---|
| <del> | | | | |
| O | Num of Multicast Group ID to add | 4 | Number of Multicast Group IDs to add | Present only if Num of Multicast Group ID to be added > 0 |

&lt;/del&gt;

&lt;insert&gt;
O For (i=0 ; i < 15 ; i++) {                                        Present if ABS wants to add multicast
                                                                       group ID list

&lt;/insert&gt;

M  &lt;del&gt;A) &lt;/del&gt; Multicast Group   12   Multicast Group ID        &lt;del&gt; Present whenNum of Multicast Group
         ID  to be added                       to be added                   ID > 0  &lt;/del&gt;


&lt;insert&gt; } &lt;/insert&gt;



**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; DSA-RSP

**Editor's Notes**                    **Editor's Actions**      a) done

The tables from this comment are already covered in comment B040

**Comment  by:**          Joey  Chou          **Membership Status:**  Member          **Date:** 2010-09-08

**Comment #**  **B10064**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 223     **Line** 30     **Fig/Table#** 740     **Subclause** 16.2.3.47.4

The row S.1) Vendor ID on line 36 should be below the row  S) Vendor Specific QoS Parameter on line 30

**Suggested Remedy**

Switch the row SDU Inter-Arrival Interval parameter and the row S.1) Vendor ID

So, it looks like the following
S) Vendor Specific QoS Parameter
S.1) Vendor ID
SDU Inter-Arrival Interval

**GroupResolution**          **Decision of Group:**   **Agree**

Switch the row SDU Inter-Arrival Interval parameter and the row S.1) Vendor ID

So, it looks like the following
S) Vendor Specific QoS Parameter
S.1) Vendor ID
SDU Inter-Arrival Interval

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; DSC-REQ

**Editor's Notes**          **Editor's Actions**     a) done

The tables from this comment are already covered in comment B041

| **Comment by:** | Joey Chou | **Membership Status:** | Member | **Date:** 2010-09-08 |

| **Comment #** | **B10065** | **Document under Review:** | **P802.16m/D8** | **Ballot ID:** | **sb_16m** |

**Comment**  **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 223   **Line** 47   **Fig/Table#** 740   **Subclause** 16.2.3.47.4

CS parameter encoding rules came from 163 (see below) that are needed for compound TLV, and is not needed for 16m

11.13.18.2 CS parameter encoding rules
Each CS defines a set of parameters that are encoded within a subindex under the "cst" values listed below.
In the cases of IP over IEEE 802.3, the relevant IP and IEEE 802.3 parameters shall be included in the
DSx-REQ message.

**Suggested Remedy**
Remove CS parameter encoding rules

**GroupResolution**                     **Decision of Group:**   **Principle**

Resolved by Comment B181

Adopt contribution 802.16m-10/1236r3

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; DSC-REQ

**Editor's Notes**          **Editor's Actions**      b) none needed

The tables from this comment are already covered in comment B041

| | | | |
|---|---|---|---|
| **Comment by:** | Joey Chou | **Membership Status:** Member | **Date:** 2010-09-08 |

**Comment #** **B10066**     **Document under Review:** **P802.16m/D8**     **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐  **Satisfied** ☐   **Page** 225   **Line** 44   **Fig/Table#** 740   **Subclause** 16.2.3.47.4

ROHC MRRU needs clarification

**Suggested Remedy**

Value column

The size of the largest reconstructed unit in octets that the decompressor is expected to reassemble from segments
0: no segmentation
 <del>Otherwise </del><ins> 1..65535</ins> : MRRU <ins>Maximum reconstructed reception unit</ins>

**GroupResolution**          **Decision of Group:**   **Agree**

Value column

The size of the largest reconstructed unit in octets that the decompressor is expected to reassemble from segments
0: no segmentation
 <del>Otherwise </del><ins> 1..65535</ins> : MRRU <ins>Maximum reconstructed reception unit</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; DSC-REQ

**Editor's Notes**          **Editor's Actions**     a) done

The tables from this comment are already covered in comment B041

**Comment  by:**            Joey   Chou              **Membership Status:**   Member          **Date:** 2010-09-08

**Comment #  B10067**                **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**       **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐     **Page** 227    **Line** 24      **Fig/Table#** 740      **Subclause** 16.2.3.47.4

The definition of Group Parameter Create/Change attributes are not clear.

**Suggested Remedy**

Clarify Group Parameter Create/Change attributes

**GroupResolution**                      **Decision of Group:**   **Principle**

Insert the following text in value/note:
Refer to 16.2.12.8.6

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; DSC-REQ

**Editor's Notes**                **Editor's Actions**    a) done

The tables from this comment are already covered in comment B041

| **Comment by:** | Joey Chou | **Membership Status:** | Member | **Date:** 2010-09-08 |

| **Comment #** B10068 | **Document under Review:** P802.16m/D8 | **Ballot ID:** sb_16m |

| **Comment** | **Type** Technical | **Part of Dis** ☐ | **Satisfied** ☐ | **Page** 228 | **Line** 22 | **Fig/Table#** 740 | **Subclause** 16.2.3.47.4 |

Num of Multicast Group ID is not a structure, so A) is not needed in Multicast Group ID

If Multicast Group ID is the number of Multicast Group ID to add, then should Multicast Group ID be a list to list multiple Multicast Group ID

The same comment apply to Num of Multicast Group ID to be deleted and A)Multicast Group ID to be deleted

**Suggested Remedy**

| M/O | Attributes / Array of attributes | Size (bits) | Value / Note | Conditions |
|-----|----------------------------------|-------------|--------------|------------|
| <del> | | | | |
| O | Num of Multicast Group ID to add | 4 | Number of Multicast Group IDs to add | Present when ABS initiates AAI-DSC-REQ Present only if Num of Multicast Group ID to be added > 0 |
| </del> | | | | |
| <insert> | | | | |
| O | For (i=0 ; i < 15 ; i++) { | | | Present if ABS wants to add multicast group ID list |
| </insert> | | | | |
| M | <del>A) </del> Multicast Group ID  to be added | 12 | Multicast Group ID to be added | <del> Present only if Num of Multicast Group ID to be added > 0  </del> |
| <insert> } </insert> | | | | |
| <del> | | | | |
| O | Num of Multicast Group ID to be deleted | 4 | Number of Multicast Group IDs to be delete | Present when ABS initiates AAI-DSC-REQ  Present only if Group ID to be deleted > 0 |
| </del> | | | | |
| <insert> | | | | |

O For (i=0 ; i < 15 ; i++) {                                    Present if ABS wants to
                                                                  delete multicast group ID
                                                                  list

</insert>

M <del>A) </del>Multicast Group   12   Multicast Group ID     <del> Present only if Num of Multicast
    ID to be deleted                    to be deleted            Group ID to be deleted > 0 </del>

<insert> } </insert>


**GroupResolution**                          **Decision of Group:**   **Agree**


| M/O | Attributes / Array of attributes | Size (bits) | Value / Note | Conditions |
|-----|----------------------------------|-------------|--------------|------------|
| <del> | | | | |
| O | Num of Multicast Group ID to add | 4 | Number of Multicast Group IDs to add | Present when ABS initiates AAI-DSC-REQ Present only if Num of Multicast Group ID to be added > 0 |
| </del> | | | | |
| <insert> | | | | |
| O For (i=0 ; i < 15 ; i++) { | | | | Present if ABS wants to add multicast group ID list |
| </insert> | | | | |
| M | <del>A) </del> Multicast Group ID to be added | 12 | Multicast Group ID to be added | <del> Present only if Num of Multicast Group ID to be added > 0  </del> |
| <insert> } </insert> | | | | |
| <del> | | | | |
| O | Num of Multicast Group ID to be deleted | 4 | Number of Multicast Group IDs to be delete | Present when ABS initiates AAI-DSC-REQ  Present only if Group ID to be deleted > 0 |
| </del> | | | | |
| <insert> | | | | |
| O For (i=0 ; i < 15 ; i++) { | | | | Present if ABS wants to |

delete multicast group ID
list

</insert>

M <del>A) </del>Multicast Group   12    Multicast Group ID       <del> Present only if Num of Multicast
       ID to be deleted                 to be deleted               Group ID to be deleted > 0 </del>

<insert> } </insert>

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.3; MAC Control Messages; DSC-REQ

**Editor's Notes**              **Editor's Actions**    a) done

The tables from this comment are already covered in comment B041

| Comment by: | YoungKyo  Baek | **Membership Status:** | Member | **Date:** 2010-09-09 |
|---|---|---|---|---|

**Comment #  B10069**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**   **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 233   **Line** 50    **Fig/Table#** 747    **Subclause** 16.2.3.50

Currently MSID privacy can be enabled or disabled depending on the MSID privacy policy considering coexistence with a legacy core networks (e.g. AAA server).
AMS performs network entry according to the MSID privacy policy.
Provisioned AMS already knows Home NSP's MSID privacy Policy, but the retail AMSs(i.e. un-provisioned AMSs) cannot know the Home NSP's MSID privacy Policy. Hence during Network entry the retail AMS need to obtain the Home NSP's privacy policy.
But, how to learn privacy policy is still open.
We suggest that ABS broadcast the NSP's MSID privacy policy using AAI_SII-ADV message In order that let all AMSs recognize the Home NSP's MSID privacy policy,.

**Suggested Remedy**

Adopt the proposed text in contribution C802.16m-10/1020 or its later version.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incompatible with the NW architecture.

**Group's Notes**
Clause 16.2.3; MAC Control Messages; SII-ADV

**Editor's Notes**          **Editor's Actions**     b) none needed

| | | | | |
|---|---|---|---|---|
| **Comment by:** | YoungKyo Baek | **Membership Status:** Member | | **Date:** 2010-09-09 |

**Comment #** **B10070**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 233   **Line** 52     **Fig/Table#**     **Subclause** 16.2.3.50

NSP list is broadcast by AAI_SII-ADV message only and retail AMS need to obtain NSP list.
Hence  'may' should be replaced with 'shall' as suggested remedy.

**Suggested Remedy**

An ABS <del>may</del><ins> shall</ins> use the AAI_SII-ADV message to broadcast a list of Network Service Provider (NSP)
Identifiers.

**GroupResolution**                **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

problem statement is not true

**Group's Notes**

Clause 16.2.3; MAC Control Messages; SII-ADV

**Editor's Notes**               **Editor's Actions**     b) none needed

| | | | | | |
|---|---|---|---|---|---|
| **Comment  by:** | Inuk  Jung | **Membership Status:** | Member | **Date:** | 2010-09-09 |

**Comment #**  **B10071**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 234   **Line** 1     **Fig/Table#**     **Subclause** 16.2.3.50

Table reformatting of AAI_SII-ADV MAC message for better reliability.

**Suggested Remedy**

Adopt proposed text in contribution IEEE C802.16m-10/1048 or its latest version

**GroupResolution**          **Decision of Group:**   **Agree**

Adopt proposed text in contribution IEEE C802.16m-10/1048

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; SII-ADV

**Editor's Notes**          **Editor's Actions**     a) done

**Comment by:**    Eunjong  Lee          **Membership Status:**  Member          **Date:** ?

**Comment #**  **B10072**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**    **Type** Editorial    **Part of Dis** ☐  **Satisfied** ☐    **Page** 241   **Line** 6        **Fig/Table#** 752    **Subclause** 16.2.3.55

Typo in Table 752 on page 241~244

**Suggested Remedy**

[Modify all of the "Descrption"s in Table 752 on page 241~244 as folows]

```
-------------------------------------------------------------------------------------------------------
    Field      |  Size (bits)  |     <del>Descrpition</del><ins>Description</ins>      |   Condition   |
-------------------------------------------------------------------------------------------------------
```

**GroupResolution**                **Decision of Group:**   **Agree**

[Modify all of the "Descrption"s in Table 752 on page 241~244 as folows]

```
-------------------------------------------------------------------------------------------------------
    Field      |  Size (bits)  |     <del>Descrpition</del><ins>Description</ins>      |   Condition   |
-------------------------------------------------------------------------------------------------------
```

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; MC-ADV; Multicarrier

**Editor's Notes**                **Editor's Actions**    a) done

| **Comment  by:** | Chia-Lung  Tsai | **Membership Status:** | **Date:** 2010-09-08 |

**Comment #**  **B10073**            **Document under Review:** **P802.16m/D8**            **Ballot ID:**  **sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐        **Page**  246    **Line**  1        **Fig/Table#**        **Subclause**  16.2.3.57

Some typos in Section 16.2.3 of D8 have been identified.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1101 or its latest version

**GroupResolution**                    **Decision of Group:**   **Agree**

Adopt the proposed text in C802.16m-10/1101

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; ARS-CONFIG-CMD

**Editor's Notes**              **Editor's Actions**      a) done

The tables from this comment are already covered in comment B077

| **Comment by:** | Jaesun Cha | **Membership Status:** | Member | **Date:** ? |

**Comment #** **B10074**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 248   **Line** 44   **Fig/Table#** 755   **Subclause** 16.2.3.58

In the last meeting, we agreed to reformat control message tables. This contribution propposes reformatted message tables for AAI-E-MBS-REP/RSP messages.

**Suggested Remedy**

Adopt contribution C802.16m-10/1130

**GroupResolution**          **Decision of Group:** **Principle**

Adopt contribution C802.16m-10/1130r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; E-MBS-REP

**Editor's Notes**          **Editor's Actions**     a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Lei Zhou | **Membership Status:** Member | **Date:** 2010-09-07 |

**Comment #** **B10075**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐ **Satisfied** ☐      **Page** 250   **Line** 39      **Fig/Table#** 757      **Subclause** 16.2.3.60

Current MAC control message table in 16m/D8 is not clear from a readability point of view. Therefore alternative table format is suggested in this contribution, and the text changes are proposed for LBS MAC control messages(AAI-LBS-ADV&AAI-LBS-IND). And this contribution only modifies bit size of change count for AAI-NBR-ADV in AAI-LBS-ADV in order to be consistent with message AAI-NBR-ADV in 16m/D8.

**Suggested Remedy**

Adopt the proposed AWD text changes in contribution C802.16m-10/1105 or its latest revision.

**GroupResolution**          **Decision of Group:** **Agree**

Adopt the proposed text changes in contribution C802.16m-10/1105

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.3; MAC Control Messages; LBS-ADV

**Editor's Notes**          **Editor's Actions**      a) done

| **Comment by:** | YoungKyo  Baek | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #**  **B10076**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☐ **Satisfied** ☐          **Page** 256          **Line** 54          **Fig/Table#**          **Subclause** 16.2.5.3.1

Currently MSID privacy can be enabled or disabled depending on the MSID privacy policy.
Hence, even if AMS is attached to an ABS and an advanced ASN-GW, the MSID privacy can be disabled depending on the MSID privacy policy.
Based on that fact, we suggest cleanup on the case that MSID privacy is applied

**Suggested Remedy**

Adopt proposed text in contribution C802.16m-10/1242 or its later version.

**GroupResolution**                    **Decision of Group:**  **Principle**

Adopt contribution C802.16m-10/1242r1.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.4; MAC PDU Contstruction; Security

**Editor's Notes**          **Editor's Actions**     a) done

The tables from this comment are already covered in comment B031

| | | | | | |
|---|---|---|---|---|---|
| **Comment by:** | Joey Chou | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #** **B10077**　　　　　　**Document under Review:** **P802.16m/D8**　　　　**Ballot ID:** **sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 263　**Line** 35　　**Fig/Table#**　　**Subclause** 16.2.4.8

In 802.16-2009, CMAC tuple is defined in TLV format in the MAC management message. The receiver needs to parse the message to find out if a message is CMAC protected by checking the CMAC TLV. Since the CMAC tuple is always the last attribute in the message, the receiver can easily locate the part of message required for CMAC verification by excluding the CMAC TLV.

In 802.16m, the MAC control messages are defined in ASN.1 format using PER encoding with byte unaligned option. If the CMAC tuple is included in the ASN.1 message, the receiver will not be able to locate the part of message to be authenticated by AES-CMAC algorithm. If the CMAC tuple is defined outside the ASN.1 message, such as in extended headers, it has the following issues:

•　　CMAC may require additional attributes (e.g. AK-Count) that can add overheads and complexity to extended headers.

•　　Since CMAC is only required in a few messages (i.e. AAI-RNG-REQ, AAI-PKM-REQ, AAI-PKM-RSP), exposing CMAC to the MPDU structure will cause uncessary complication. Like 802.16-2009, it should be kept inside the MAC control message payload.


**Suggested Remedy**

Adopt contribution C802.16m-10/0768r3.doc or later version


**GroupResolution**　　　　　　　　**Decision of Group:**　**Principle**


Resolved by comment B10082:

Adopt text in contribution C802.16-10/0768r5


**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.4; MAC PDU Contstruction; Security

**Editor's Notes**　　　　　**Editor's Actions**　　b) none needed

The tables from this comment are already covered in comment B031 and B10053

**Comment by:**        YoungKyo  Baek          **Membership Status:**   Member          **Date:** 2010-09-09

**Comment #  B10078**                **Document under Review:  P802.16m/D8**                **Ballot ID:  sb_16m**

**Comment**        **Type** Technical        **Part of Dis** ☐  **Satisfied** ☐          **Page** 274    **Line** 1            **Fig/Table#** 399        **Subclause** 16.2.5.2.1.4

need some fixes on Figure 399(Key agreement procedure) in accordance with description about key agreement procedure.

**Suggested Remedy**

Adopt the proposed text in contribution C802.16m-10/1241 or its later version.

**GroupResolution**                **Decision of Group:**   **Agree**

Adopt the proposed text in contribution C802.16m-10/1241

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.5; MAC Security

**Editor's Notes**                **Editor's Actions**        a) done

| | | | |
|---|---|---|---|
| **Comment  by:** | YoungKyo  Baek | **Membership Status:** Member | **Date:** 2010-09-09 |

**Comment #** B10079　　　　　　　**Document under Review:** P802.16m/D8　　　　　**Ballot ID:** sb_16m

**Comment**　　**Type** Technical　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 278　**Line** 6　　**Fig/Table#**　　**Subclause** 16.2.5.2.1.5.6

There is no ranging success status in AAI_RNG-RSP and even if ranging procedure is completed SBC/REG procedure may be required in zone switching procedure.


**Suggested Remedy**

[ line 6 page 278]
• If the AMS decrypts and decodes successfully the AAI-RNG-RSP message  <del>with ranging success status</del>, then the AMS regards it as completion of a successful <ins> security key update </ins><del>zone switching</del> procedure.

[ line 29 page 278]
• If the AMS decrypts and decodes successfully the AAI-RNG-RSP message  <del>with ranging success status</del>, then the AMS regards it as completion of a successful <ins> security key update </ins><del>zone switching</del> procedure.


**GroupResolution**　　　　　　　　**Decision of Group:**　**Principle**


Accept-modify:

[ line 6 page 278]
• If the AMS decrypts and decodes successfully the AAI-RNG-RSP message  <del>with ranging success status</del>, then the AMS regards it as completion of a successful <ins> security key update </ins><del>zone switching procedure </del>.

[ line 29 page 278]
• If the AMS decrypts and decodes successfully the AAI-RNG-RSP message  <del>with ranging success status</del>, then the AMS regards it as completion of a successful <ins> security key update </ins><del>zone switching procedure</del>.


**Reason for Group's Decision/Resolution**


**Group's Notes**

Clause 16.2.5; MAC Security

**Editor's Notes**　　　　　　　**Editor's Actions**　　a) done

| **Comment by:** | YoungKyo Baek | | **Membership Status:** | Member | | **Date:** 2010-09-09 |

| **Comment #** B10080 | | **Document under Review:** P802.16m/D8 | | **Ballot ID:** sb_16m |

**Comment** **Type** Technical **Part of Dis** ☐ **Satisfied** ☐ **Page** 278 **Line** 53 **Fig/Table#** **Subclause** 16.2.5.2.2

For control flows the AMS/ABS recognizes from FID(0x1,0x0) whether the received MAC PDU is encrypted or not . For transport flows the receiver distinghishes encryption of MAC PDU by the SA which is associated FID in MAC header.
For that clarification we need text modification as suggested remedy.

**Suggested Remedy**

SA is used to provide keying material for unicast transport/control flows. Once an SA is mapped to an unicast transport flow, the SA is applied to all the data exchanged within the unicast transport flow. Multiple flows may be mapped to the same SA. The indication to the receiver that the MAC PDU is encrypted or not is indicated by the FID 0x1 and 0x0 in AGMH respectively <ins>for unicast control flows, and indicated by SA which is associated to FID in AGMH and SPMH for unicast transport flows</ins>.
The Flow ID in the AGMH is used to indicate whether the PDU contains control message encrypted based on security level. Whether each control message is encrypted or not is decided based on the security level which the message is associated with<ins>(see the table 678)</ins>.

**GroupResolution** **Decision of Group:** **Agree**

SA is used to provide keying material for unicast transport/control flows. Once an SA is mapped to an unicast transport flow, the SA is applied to all the data exchanged within the unicast transport flow. Multiple flows may be mapped to the same SA. The indication to the receiver that the MAC PDU is encrypted or not is indicated by the FID 0x1 and 0x0 in AGMH respectively <ins>for unicast control flows, and indicated by SA which is associated to FID in AGMH and SPMH for unicast transport flows</ins>.
The Flow ID in the AGMH is used to indicate whether the PDU contains control message encrypted based on security level. Whether each control message is encrypted or not is decided based on the security level which the message is associated with<ins>(see the table 678)</ins>.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.5; MAC Security

**Editor's Notes** **Editor's Actions** a) done

**Comment by:** YoungKyo Baek **Membership Status:** Member **Date:** 2010-09-09

**Comment #** **B10081** **Document under Review:** **P802.16m/D8** **Ballot ID:** **sb_16m**

**Comment** **Type** Technical **Part of Dis** ☐ **Satisfied** ☐ **Page** 281 **Line** 10 **Fig/Table#** **Subclause** 16.2.5.2.3.1.1

'byte index 0 transmit first' means big endian. CCM alogrithm(NIST Special Publication 800-38) follows big endian also.  Hence If explanation about big endian is included separately like D8, it can make misunderstandingn. Suggest deleting that description.

**Suggested Remedy**

<del>The ciphertext message authentication code is transmitted so that byte index 0 is transmitted first (i.e., LSB first).</del>

**GroupResolution** **Decision of Group:** **Agree**

<del>The ciphertext message authentication code is transmitted so that byte index 0 is transmitted first (i.e., LSB first).</del>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.5; MAC Security

**Editor's Notes** **Editor's Actions** a) done

| **Comment by:** | Anil Agiwal | **Membership Status:** | Member | **Date:** ? |
| --- | --- | --- | --- | --- |

**Comment #** **B10082**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 283     **Line**          **Fig/Table#**          **Subclause** 16.2.5.2.3.2

ASN.1 encoded message is input to CMAC generation algorithm. So CMAC tuple can not be part of ASN.1 encoded control message. But in D8 CMAC tuple is part of ASN.1 encoded message.

**Suggested Remedy**

Adopt the proposed text in latest version of contribution C802.16m-10/0963

**GroupResolution**          **Decision of Group:** **Principle**

Adopt the text in contribution C802.16-10/0768r5

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.5; MAC Security

**Editor's Notes**          **Editor's Actions**     a) done

The tables from this comment are already covered in comment B031 and B10053

| **Comment  by:** | Joey  Chou | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #**  **B10083**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 205   **Line** 14     **Fig/Table#** 737     **Subclause** 16.2.3.47.1

reformat connection management and system information messages

**Suggested Remedy**

Adopt contribution C802.16m-10/1135.doc or later version

**GroupResolution**                    **Decision of Group:**   **Principle**

Resolved by Comment #B039:
Adopt contribution C802.16m-10/1119r3

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.5; MAC Control Messages; DSA-REQ

**Editor's Notes**          **Editor's Actions**     b) none needed

| **Comment by:** | YoungKyo Baek | | **Membership Status:** | Member | | **Date:** 2010-09-09 |

| **Comment #** B10084 | | **Document under Review:** P802.16m/D8 | | **Ballot ID:** sb_16m |

**Comment**　　**Type** Editorial　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 298　　**Line** 57　　**Fig/Table#**　　**Subclause** 16.2.5.3.1

unnecessary symbol

**Suggested Remedy**

AMSID privacy is applied in the following way;

• <del>"</del> AMSID privacy is mandatory to implement in ABS and AMS.

•<del>"</del>The network with S-SFH Network Configuration bit = 0b0 must allow the AMS to connect using AMSID privacy mode or using the real AMS MAC address (i.e. not using AMSID privacy mode), AMS decision is based on the AMSID privacy policy obtained by the AMS. The definition of AMSID privacy policy is outside the scope of this specification.

**GroupResolution**　　　　　　　　**Decision of Group:** **Agree**

AMSID privacy is applied in the following way;

• <del>"</del> AMSID privacy is mandatory to implement in ABS and AMS.

•<del>"</del>The network with S-SFH Network Configuration bit = 0b0 must allow the AMS to connect using AMSID privacy mode or using the real AMS MAC address (i.e. not using AMSID privacy mode), AMS decision is based on the AMSID privacy policy obtained by the AMS. The definition of AMSID privacy policy is outside the scope of this specification.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.5; MAC Security

**Editor's Notes**　　　　　　**Editor's Actions**　　a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Jaesun Cha | **Membership Status:** Member | **Date:** ? |

**Comment #** **B10085**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Editorial   **Part of Dis** ☐ **Satisfied** ☐   **Page** 310   **Line** 11   **Fig/Table#**   **Subclause** 16.2.6.2

editorial change

**Suggested Remedy**

The ABS may define neighbor-specific triggers by including neighbor-specific triggers in the AAI-NBR-ADV message. The AMS evaluates neighbor-specific triggers only for the specific neighbor ABS metric. Neighbor-specific triggers use the format in Table 770, where only function types 0x1, 0x2, 0x3 and 0x4 and actions types 0x1 and 0x2 are allowed. When present, neighbor-specific handover triggers override any general triggers (defined in the AAI-SCD message) of the same type, function and action.

**GroupResolution**                    **Decision of Group:**   **Agree**

The ABS may define neighbor-specific triggers by including neighbor-specific triggers in the AAI-NBR-ADV message. The AMS evaluates neighbor-specific triggers only for the specific neighbor ABS metric. Neighbor-specific triggers use the format in Table 770, where only function types 0x1, 0x2, 0x3 and 0x4 and actions types 0x1 and 0x2 are allowed. When present, neighbor-specific handover triggers override any general triggers (defined in the AAI-SCD message) of the same type, function and action.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**      a) done

| **Comment by:** | | Jaesun Cha | | **Membership Status:** | Member | | **Date:** ? |

**Comment #** **B10086**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 311   **Line** 35      **Fig/Table#**      **Subclause** 16.2.6.3.3

According to the HO ranging procedure defined in 16.2.6.3.3, if the AMS fails to perform ranging before expiration of Ranging Initiation Deadline, it shall stop using the dedicated ranging but randomly pick up a ranging code if further ranging is necessary. But, Figure 409 says that the AMS shall use the dedicated ranging code for further ranging process if Ranging status is not 'Abort' and Ranging Initiation Deadline is not expired. Two description conflicts with each other.

Delete the text in 16.2.6.3.3 or modify Figure 409 based on the description in 16.2.6.3.3

**Suggested Remedy**

During HO preparation phase, the T-ABS may allocate a dedicated ranging code and dedicated ranging opportunity to the AMS via the S-ABS through the AAI-HO-CMD message. The dedicated code shall be used by the AMS if the ABS assigns the dedicated ranging code and the Ranging Initiation Deadline has not expired. ~~If the AMS fails to perform ranging before expiration of Ranging Initiation Deadline, it shall stop using the dedicated code and opportunity but randomly pick a ranging code if further ranging is necessary.~~ The T-ABS shall select the dedicated ranging code from the group of codes which are allocated for dedicated hando

ver ranging purpose.

**GroupResolution**                    **Decision of Group:**   **Principle**

Accept Modify as follows:
If the AMS fails to perform CDMA HO ranging successfully ~~before~~ until expiration of Ranging Initiation Deadline, it shall stop using the dedicated code ~~and opportunity~~ but randomly pick a ranging code if further ranging is necessary.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.6; MAC HO procedures

**Editor's Notes**                    **Editor's Actions**      a) done

| **Comment by:** | Jaesun Cha | **Membership Status:** | Member | **Date:** ? |

**Comment #** **B10087**　　　　　**Document under Review:** **P802.16m/D8**　　　　**Ballot ID:** **sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 312　**Line** 33　　**Fig/Table#**　　**Subclause** 16.2.6.3.3

According to the current draft, S-ABS may include zero T-ABS in the AAI-HO-CMD message when it accepts the handover request from the AMS but it doesn't make sense. If there is no T-ABS in the AAI-HO-CMD message, then essestial HO prameters such as action time and pre-allocated STID can not be included in the AAI-HO-CMD message. As a result, the AMS has to perform uncoordinated HO.

**Suggested Remedy**

If the ABS chooses to accept the handover, it shall set Mode in the AAI-HO-CMD to 0b00. If the ABS sets Mode to 0b00, it may include ~~zero,~~ one or more T-ABS in the AAI-HO-CMD message. The ABS may include candidate T-ABSs requested by the AMS in the AAI-HO-REQ message and/or alternate candidate ABSs not requested by the AMS.

**GroupResolution**　　　　　　　　　　**Decision of Group:** **Disagree**

**Reason for Group's Decision/Resolution**

There is valid use case usage for zero target BS in AAI_HO-CMD

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**　　　　　　**Editor's Actions**　　b) none needed

| **Comment  by:** | | Jaesun   Cha | **Membership Status:** | Member | | **Date:** ? |

| **Comment #  B10088** | | **Document under Review:** P802.16m/D8 | | **Ballot ID:  sb_16m** |

**Comment**   **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 313   **Line** 17     **Fig/Table#**     **Subclause** 16.2.6.3.3

Is there any possible scenario where S-ABS requests AMS to perform HO without any recommended T-ABSs?
To my understanding, the S-ABS shall provide the recommended T-ABS if there is at least one T-ABS which can accept the AMS.
Otherwise, how can AMS perform HO?

**Suggested Remedy**

If all T-ABSs included in the AAI-HO-CMD message are unreachable (as defined in this section) ~~or if the AAI-HO-CMD message includes no T-ABS,~~ and if the AMS has a preferred T-ABS it shall inform the S-ABS of its preferred T-ABS by sending the AAI-HO-IND message with HO Event Code 0b01 prior to expiration of Disconnect Time. If the AMS has no preferred T-ABS to include in the AAI-HO-IND message, it may perform HO cancellation as described in section 16.2.6.3.6.

**GroupResolution**                          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

There is valid use case usage for zero target BS in AAI_HO-CMD

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**                    **Editor's Actions**     b) none needed

| **Comment by:** | Jaehyuk Jang | **Membership Status:** | Member | **Date:** 2010-09-07 |

**Comment #** **B10089**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 313  **Line** 22    **Fig/Table#**    **Subclause** 16.2.6.3.4

In all unreachable case, an AMS may not always be able to send the AAI-HO-IND message with preferred target ABS due to lack of scanning time. It is also undesirable to cancel handover if signaling strength goes down with serving ABS, but the AMS has still no preferred target ABS. In this case, one operational scenario is just for AMS to perform uncontrolled handover without sending the AAI-HO-IND message. Above scenario also needs to be considered in the specification.

**Suggested Remedy**

[Update the sentence in pp. 313, line 22 in D8 as follows:]

If all T-ABSs included in the AAI-HO-CMD message are unreachable (as defined in this section) or if the AAI-HO-CMD message includes no T-ABS, and if the AMS has a preferred T-ABS it shall inform the S-ABS of its preferred T-ABS by sending the AAI-HO-IND message with HO Event Code 0b01 prior to expiration of Disconnect Time. If the AMS has no preferred T-ABS to include in the AAI-HO-IND message, it may perform HO cancellation as described in section 16.2.6.3.6<ins>, or perform uncontrolled handover without sending the AAI-HO-IND message</ins>.

**GroupResolution**                    **Decision of Group:**  **Disagree**

**Reason for Group's Decision/Resolution**

Remedy is not complete.

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**                **Editor's Actions**      b) none needed

**Comment by:** Jaehyuk Jang     **Membership Status:** Member     **Date:** 2010-09-07

**Comment #** B10090     **Document under Review:** P802.16m/D8     **Ballot ID:** sb_16m

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 318    **Line** 39     **Fig/Table#**     **Subclause** 16.2.6.3.5.2

PKM authentication phase during network reentry should be omitted if the CMAC tuples in the AAI-RNG-REQ and AAI-RNG-RSP are valid. No additional key exchanges are required.

**Suggested Remedy**

[Add the following paragraph in pp. 318, line 39 in D8:]

<ins>If the T-ABS evaluates a CMAC Tuple included in the AAI-RNG-REQ as valid, the T-ABS shall reply with an AAI-RNG-RSP encrypted by AES-CCM. The T-ABS shall indicate that the PKM Authentication phase is omitted in the current reentry attempt through the Reentry Process Optimization in the encrypted AAI-RNG-RSP message. If the T-ABS evaluates a CMAC tuple in the AAI-RNG-REQ as invalid, the T-ABS shall reply with an unencrypted AAI-RNG-RSP containing Reentry Process Optimization bit #1 = 0 (i.e. the PKM authentication phase is not omitted).</ins>

**GroupResolution**     **Decision of Group:** Principle

Accept Modify:

<ins>If the T-ABS evaluates a CMAC Tuple included in the AAI-RNG-REQ as valid, the T-ABS shall reply with an AAI-RNG-RSP encrypted **and integrity-protected** by AES-CCM. The T-ABS shall indicate that the PKM Authentication phase is omitted in the current reentry attempt through the Reentry Process Optimization in the encrypted AAI-RNG-RSP message. If the T-ABS evaluates a CMAC tuple in the AAI-RNG-REQ as invalid, the T-ABS shall reply with an unencryptedand **not integrity-protected** AAI-RNG-RSP containing Reentry Process Optimization bit #1 = 0 (i.e. the PKM authentication phase is not omitted).</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.6; MAC HO procedures

**Editor's Notes**     **Editor's Actions**    a) done

| **Comment by:** | YoungKyo Baek | **Membership Status:** | Member | **Date:** | 2010-09-09 |

**Comment #** **B10091**   **Document under Review:** **P802.16m/D8**   **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 318   **Line** 61   **Fig/Table#**   **Subclause** 16.2.6.3.6

In the WirelessMAN OFDMA advanced system CMAC_KEY_COUNT is replaced with AK_COUNT for the same purpose.

**Suggested Remedy**

An AMS requests HO cancellation to the S-ABS by sending the AAI-HO-IND with HO Event Code 0b11 (HO cancel) with its current <del>CMAC KEY COUNT</del><ins>AK_COUNT</ins> after Disconnect Time.

**GroupResolution**   **Decision of Group:** **Agree**

An AMS requests HO cancellation to the S-ABS by sending the AAI-HO-IND with HO Event Code 0b11 (HO cancel) with its current <del>CMAC KEY COUNT</del><ins>AK_COUNT</ins> after Disconnect Time.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**   **Editor's Actions**   a) done

**Comment by:**     YoungKyo  Baek                    **Membership Status:**   Member          **Date:** 2010-09-09

**Comment #**  **B10092**          **Document under Review:**  **P802.16m/D8**                    **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 319   **Line** 19      **Fig/Table#**          **Subclause** 16.2.6.3.7

Some ranging puppose indication codes are not matched with the one in AAI_RNG-REQ message.
Need to fix as suggested remedy.

**Suggested Remedy**

[page 319 line19]
The network reentry process at the S-ABS is identical to the network reentry process at any other T-ABS, both for the S-ABS and for the AMS. The ranging purpose indication in AAI-RNG-REQ shall be set to 0b<del>0101 </del> <ins>0001</ins>.

[page 346 line12]
An AMS may perform Location Update process to acquire its preferred carrier for the idle mode support when AMS cannot find the paging carrier. In this case, Ranging Purpose Indication = 0b<del>0001 </del> <ins>0011</ins> in AAI-RNG-REQ message is used for indicating paging carrier update in location update process, and the AMS may include Paging Carrier Update parameter in AAI-RNG-REQ message to inform its preferred paging carrier.

[page 371 line64]
During the network entry, the ABS shall allocate the NS/EP service FID for the emergency service flow through AAI-RNG-RSP upon receiving AAI-RNG-REQ with Ranging Purpose Indication set to code 0b <del>10000 </del> <ins>1101</ins>.

[page 372 line9]
The AMS may request for Emergency Service flow setup during initial ranging process by setting the Ranging Purpose Indication to code 0b<del>0010 </del> <ins>0101</ins> for E911 type services and code 0b<del>1000 </del> <ins>1101</ins> for NS/EP services in the AAI-RNG-REQ message.

[page 467 line3]
When an AMS performs handover to a new ABS while in Active Mode or Sleep Mode, the AMS shall send AAI-RNG-REQ message with Ranging Purpose Indication = 0b<del>0000 </del> <ins>0001</ins> at the T-ABS.

[page 848 line42]
If an AMS is placed into outage by an inaccessible ABS (e.g. the CSG-closed Femto ABS of which it is not a member) and only if the AMS has no connection with neighbor macro ABS, it may indicate this problem to that Femto ABS by sending an AAI-RNG-REQ with the Ranging Purpose Indication code 0b<del>0111 </del> <ins> 1100</ins> based on configured trigger conditions.
Upon inaccessible Femto ABS receiving an AAI-RNG-REQ with the Ranging Purpose Indication code 0b<del>0111 </del> <ins>1100</ins> from AMS, the Femto ABS may perform interference mitigation based on the measurement and legitimate of the AMS.

[page 848 line61]
Upon receiving an AAI-RNG-REQ with the Ranging Purpose Indication code 0b<del>0111 </del> <ins>1100 </ins>, or an interference indication from the overlay Macro ABS, and if there are no AMSs attached to the CSG-Closed Femto ABS and there are no AMSs in network (re)entry process, the CSG-Closed Femto ABS may operate in LDM for a time interval to reduce interference.

[page 900 line1]
When the AMS transits to a new E-MBS Zone while in Active Mode or Sleep Mode, and the E-MBS service flow management encodings of the AMS have not been updated, the AMS shall send AAI-RNG-REQ message with Ranging Purpose Indication = 0b<del>0110 </del> <ins>0001</ins> at the T-ABS and the ABS shall include E-MBS ID and FID Update in AAI-RNG-RSP parameters to provide updated service flow management encodings for any affected E-MBS flow as part of the handover procedure.

**GroupResolution**                    **Decision of Group:**  **Principle**

[page 319 line19]
The network reentry process at the S-ABS is identical to the network reentry process at any other T-ABS, both for the S-ABS and for the AMS. The ranging purpose indication in AAI-RNG-REQ shall be set to 0b<del>0101 </del> <ins>1000</ins>.

[page 346 line12]
An AMS may perform Location Update process to acquire its preferred carrier for the idle mode support when AMS cannot find the paging carrier. In this case, Ranging Purpose Indication = 0b<del>0001 </del> <ins>0011</ins> in AAI-RNG-REQ message is used for indicating paging carrier update in location update process, and the AMS may include Paging Carrier Update parameter in AAI-RNG-REQ message to inform its preferred paging carrier.

[page 371 line64]
During the network entry, the ABS shall allocate the NS/EP service FID for the emergency service flow through AAI-RNG-RSP upon receiving AAI-RNG-REQ with Ranging Purpose Indication set to code 0b <del>10000 </del> <ins>1101</ins>.

[page 372 line9]
The AMS may request for Emergency Service flow setup during initial ranging process by setting the Ranging Purpose Indication to code 0b<del>0010 </del> <ins>0101</ins> for E911 type services and code 0b<del>1000 </del> <ins>1101</ins> for NS/EP services in the AAI-RNG-REQ message.

[page 467 line3]
When an AMS performs handover to a new ABS while in Active Mode or Sleep Mode, the AMS shall send AAI-RNG-REQ message with Ranging Purpose Indication = 0b<del>0000 </del> <ins>0001</ins> at the T-ABS.

[page 848 line42]
If an AMS is placed into outage by an inaccessible ABS (e.g. the CSG-closed Femto ABS of which it is not a member) and only if the AMS has no connection with neighbor macro ABS, it may indicate this problem to that Femto ABS by sending an AAI-RNG-REQ with the Ranging Purpose Indication code 0b<del>0111 </del> <ins> 1100</ins> based on configured trigger conditions.

Upon inaccessible Femto ABS receiving an AAI-RNG-REQ with the Ranging Purpose Indication code 0b<del>0111 </del> <ins>1100</ins> from AMS, the Femto ABS may perform interference mitigation based on the measurement and legitimate of the AMS.

[page 848 line61]
Upon receiving an AAI-RNG-REQ with the Ranging Purpose Indication code 0b<del>0111 </del> <ins>1100 </ins>, or an interference indication from the overlay Macro ABS, and if there are no AMSs attached to the CSG-Closed Femto ABS and there are no AMSs in network (re)entry process, the CSG-Closed Femto ABS may operate in LDM for a time interval to reduce interference.

[page 900 line1]
When the AMS transits to a new E-MBS Zone while in Active Mode or Sleep Mode, and the E-MBS service flow management

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**          a) done

**2010/10/06**                                                                    **IEEE 802.16-10/0047r4**

**Comment  by:**          Inuk  Jung          **Membership Status:**   Member          **Date:** 2010-09-09

**Comment #**  B10093          **Document under Review:**  P802.16m/D8          **Ballot ID:**  sb_16m

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 320   **Line** 14   **Fig/Table#**   **Subclause**  16.2.6.4.1.2.1

The current text describing zone switch procedure is incorrect and need to be updated. Also the figures should be redrawn based on zone switch mode rather than establishment of data path in Lzone.

**Suggested Remedy**

Adopt proposed text in contribution IEEE C802.16m-10/1244 or its latest version

**GroupResolution**          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incompleted, and complicated w.r.t. current description in D8. The current D8 clear defines the MS's behavior based on the 'Action Time': network reentry time to MZone. Current text is much more clear than proposed one.

**Group's Notes**
Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**          b) none needed

| **Comment by:** | Jaehyuk Jang | **Membership Status:** | Member | **Date:** 2010-09-07 |
|---|---|---|---|---|

**Comment #** **B10094**　　　　　**Document under Review:** **P802.16m/D8**　　　　**Ballot ID:** **sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 322　**Line** 21　　　**Fig/Table#** Figur　　**Subclause** 16.2.6.4.1.2.1

An AMS does not have to send another RNG-REQ message when ABS instructs the AMS to switch zones *after* completion of network reentry at Lzone. an AMS cannot request zone switching in LZone because it uses legacy RNG-REQ message. The figure should be corrected.

**Suggested Remedy**

[Remove 'RNG-REQ' (dotted arrow) from Figure 413 in pp. 322, line 21]

**GroupResolution**　　　　　　　　**Decision of Group:**　**Agree**

[Remove 'RNG-REQ' (dotted arrow) from Figure 413 in pp. 322, line 21]

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**　　　　　　　　**Editor's Actions**　　　a) done

**Comment  by:**          Jaesun  Cha          **Membership Status:**   Member          **Date:** ?

**Comment #  B10095**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 324   **Line** 21     **Fig/Table#**     **Subclause**  16.2.6.4.1.1

The full System information of neighbor R1 BS and LZone of neighboring ABS is not included in AAI-NBR-ADV. The AAI-NBR-ADV contains only the minimum system information needed for cell selection such as preamble index, carrier index, channel bandwidth, etc.

**Suggested Remedy**

In a WirelessMAN-OFDMA Advanced co-existing System, the ABS shall broadcast:
• in its LZone using MOB_NBR-ADV message -- the system information of neighboring R1 BS, and LZone of neighboring ABS;
• in its MZone using AAI-NBR-ADV message -- the minimum system information of neighboring R1 BS and LZone of neighboring ABS for cell selection

**GroupResolution**          **Decision of Group:**   **Principle**

Accept Modify as follows:
In a WirelessMAN-OFDMA Advanced co-existing System, the ABS shall broadcast:
• in its LZone using MOB_NBR-ADV message -- the system information of neighboring R1 BS, and LZone of neighboring ABS;
• in its MZone using AAI-NBR-ADV message -- the system information of neighboring R1 BS and LZone of neighboring ABS for cell selection

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.6; MAC HO procedures

**Editor's Notes**          **Editor's Actions**     a) done

**Comment  by:**          Jaesun  Cha                    **Membership Status:**   Member                    **Date:** ?

**Comment #  B10096**               **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 325   **Line** 32        **Fig/Table#**        **Subclause**  16.2.6.4.2.4

Subsection 16.2.6.4.2.4 describes HO from 16m only ABS to R1 BS. HO from MZone of ABS to R1 BS is described in the previous subsection (16.2.6.4.2.3)

**Suggested Remedy**

An AMS served by an AAI only ABS ~~or MZone of ABS~~ may discover and handover to a R1 BS. The existence of neighbor R1 BS is indicated by the AAI-NBR-ADV message from the serving AAI only ABS. The parameters R1 BS preamble and R1 BS ID contained in the AAI-NBR-ADV indicate the existence of neighbor R1 BS. The AMS scans neighbor R1 BS(s) based on the indication information. After the target R1 BS is determined, the AMS leaves WirelessMAN-OFDMA Advanced System per Section 16.2.6.3, and starts WirelessMAN OFDMA R1 Reference System network reentry procedure to the target BS. Specifically, In the AAI-HO-CMD sent ~~in MZone~~<u>from an AAI only ABS</u> for the HO procedure, HO reentry mode shall be 0 (unless it is a MC HO) and no dedicated ranging code is assigned for the network reentry in R1 BS.

**GroupResolution**                         **Decision of Group:**   **Agree**

An AMS served by an AAI only ABS ~~or MZone of ABS~~ may discover and handover to a R1 BS. The existence of neighbor R1 BS is indicated by the AAI-NBR-ADV message from the serving AAI only ABS. The parameters R1 BS preamble and R1 BS ID contained in the AAI-NBR-ADV indicate the existence of neighbor R1 BS. The AMS scans neighbor R1 BS(s) based on the indication information. After the target R1 BS is determined, the AMS leaves WirelessMAN-OFDMA Advanced System per Section 16.2.6.3, and starts WirelessMAN OFDMA R1 Reference System network reentry procedure to the target BS. Specifically, In the AAI-HO-CMD sent ~~in MZone~~<u>from an AAI only ABS</u> for the HO procedure, HO reentry mode shall be 0 (unless it is a MC HO) and no dedicated ranging code is assigned for the network reentry in R1 BS.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.6; MAC HO procedures

**Editor's Notes**                    **Editor's Actions**     a) done

| | | |
|---|---|---|
| **Comment by:** Jeongki Kim | **Membership Status:** Member | **Date:** 2010-09-09 |

**Comment #** **B10097**        **Document under Review:** **P802.16m/D8**        **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 332   **Line** 18    **Fig/Table#**        **Subclause** 16.2.7.4

ACK checking procedure of DL/UL PA error handling includes the HARQ process for the data burst identified by PA A-MAP IE. We need to clarify the related texts

**Suggested Remedy**

[Modify the related sentence as follows, on page 332, line 18]
If an ACK for the data burst identified by the DL Persistent Allocation A-MAP IE is detected in the assigned HARQ Feedback channel within <ins>the associated HARQ process</ins>, the ABS assumes that the DL Persistent Allocation A-MAP IE is correctly received by AMS. If the initial data burst identified by the UL Persistent Allocation A-MAP IE is successfully decoded <ins>within the associated HARQ process</ins>, the ABS assumes that the UL Persistent Allocation A-MAP IE is correctly received.

**GroupResolution**                    **Decision of Group:**   **Principle**

Resolved by Comment #B10098:
Adopt the Text proposals in C802.16m-10/1223r3

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.7; MAC Persistent Scheduling

**Editor's Notes**              **Editor's Actions**     b) none needed

**Comment by:**        Jeongki  Kim        **Membership Status:**  Member        **Date:** 2010-09-09

**Comment #**  **B10098**            **Document under Review:**  **P802.16m/D8**            **Ballot ID:**  **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 332    **Line** 50    **Fig/Table#**    **Subclause** 16.2.7.4

When an ABS fails to decode the UL burst indentified by the UL Persistent allocation A-MAP IE, the ABS may transmit UL basic assignment A-MAP IE for the UL sub-packet retransmission. In this case, if the ABS successfully decodes UL burst identified by the UL Basic Assignment A-MAP IE, the ABS assumes that the UL Persistent Allocation A-MAP IE is correctly received although the IE is lost by an AMS.
PA sync problem between AMS and ABS occurs. It will result in unnecessary resource overhead.

**Suggested Remedy**

Adopt the Text proposals in C802.16m-10/1223 or the latest revision of the contribution.

**GroupResolution**                **Decision of Group:**   **Principle**

Adopt the Text proposals in C802.16m-10/1223r3

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.7; MAC Persistent Scheduling

**Editor's Notes**                **Editor's Actions**        a) done

| **Comment by:** | Inuk  Jung | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #**  **B10099**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**   **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐   **Page** 323   **Line** 1   **Fig/Table#**   **Subclause** 16.2.6.4.1.2.1

Parallel DL operation capability for Zone Switch may alleviate the Device complexitiy rather than giving a choice of no parallel DL/UL operation or full parallel DL/UL operation. It also helps expedite network entry in MZone since AMS is able to acquire SFH information while operating in LZone.

**Suggested Remedy**

Adopt proposed text in contribution IEEE C802.16m-10/1234 or its latest version

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 5, 3, 0
incomplete remedy

**Group's Notes**

Clause 16.2.6; MAC HO procedures

**Editor's Notes**           **Editor's Actions**     b) none needed

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Chia-Lung Tsai | **Membership Status:** | | **Date:** 2010-09-08 |

**Comment #** **B10100**                **Document under Review:** **P802.16m/D8**                **Ballot ID:** **sb_16m**

**Comment**          **Type** Technical        **Part of Dis** ☐ **Satisfied** ☐        **Page** 334    **Line** 26        **Fig/Table#**          **Subclause** 16.2.8.1

Some texts are not consistent with AAI-Global-CFG messages after session 68.5.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/ 1100 or its latest version

**GroupResolution**                **Decision of Group:**   **Agree**

Adopt the proposed text in C802.16m-10/ 1100

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**                **Editor's Actions**      a) done

done hyunjeong (except remedy #3: PHY book -> done Hyunkyu)
The tables from this comment are already covered in comment B037 and B038

| **Comment by:** | Soojung  Jung | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #**  **B10101**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 336      **Line** 64      **Fig/Table#**      **Subclause**  16.2.8.2.3.1

multicarrier mode supported by the ABS is not provided throguh the AAI-MC-ADV message. And the AMS obtains the MC configuration through not only  the AAI-MC-ADV message but also the AAI-Global-CFG message.

**Suggested Remedy**

adopt the proposed text in the latest version of contribution C802.16m-10/1163

**GroupResolution**                    **Decision of Group:**  **Agree**

adopt the proposed text in the contribution C802.16m-10/1163

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**          **Editor's Actions**      a) done

| **Comment by:** | Jinyoung Chun | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #** **B10102**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 338   **Line** 31   **Fig/Table#**   **Subclause** 16.2.8.2.8

[MC] MAC control messages and MAC headers shall be sent to the AMS through its primary carrier. But carrier index shall be known implicitly or explicitly if the value included the message depends on the carrier.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1155 or the latest version.

**GroupResolution**          **Decision of Group:**   **Principle**

Adopt the proposed text in C802.16m-10/1155r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**          **Editor's Actions**   a) done

| **Comment  by:** | Eunjong  Lee | **Membership Status:** | Member | **Date:** ? |

**Comment #  B10103**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐   **Satisfied** ☐      **Page** 339   **Line** 7      **Fig/Table#**          **Subclause**  16.2.8.2.9

Wrong section number. MCHO procedure has been defined in whole section 16.2.8.2.9.

**Suggested Remedy**

[Modify the text in line 7 on page 339 as follows]

It may also decide to perform MCHO procedure as defined in<del>~~16.2.8.2.9.2.2 and 16.2.8.2.9.2.3, repsectively~~</del><ins>this section</ins>.

**GroupResolution**                    **Decision of Group:**   **Agree**

[Modify the text in line 7 on page 339 as follows]

It may also decide to perform MCHO procedure as defined in<del>~~16.2.8.2.9.2.2 and 16.2.8.2.9.2.3, repsectively~~</del><ins>this section</ins>.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**          **Editor's Actions**      a) done

| **Comment  by:** | Inuk  Jung | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #  B10104**　　　　　　**Document under Review:  P802.16m/D8**　　　　**Ballot ID:  sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 341　**Line** 41　　**Fig/Table#**　　**Subclause** 16.2.8.2.9.2

Currently MC EBB HO is described as a combination of capabilities and related paramters. Since there is a missing MC HO case, it also need to be described as such a combination.
Rather than defining it as a combination, we sugges to combine them as a single Multi-carrier EBB HO capability for easier use and further cover the missing MC HO for single RF MS with multi-carrier capability.

**Suggested Remedy**

Adopt proposed text in contribution IEEE C802.16m-10/1237 or its latest version

**GroupResolution**　　　　　　　　**Decision of Group:**　**Disagree**

**Reason for Group's Decision/Resolution**

Incomplte Remedy.

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**　　　　　**Editor's Actions**　　b) none needed

**Comment by:**     Eunjong  Lee                    **Membership Status:**   Member                      **Date:** ?

**Comment #** B10105                       **Document under Review:** P802.16m/D8                 **Ballot ID:** sb_16m

**Comment**      **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 341   **Line** 44      **Fig/Table#**              **Subclause** 16.2.8.2.9.2

Propose to describe the section number.

**Suggested Remedy**

[Modify the text in line 44 on page 341 as follows]

The multicarrier handover (MCHO) is defined as the handover procedure which involves multiple radio carriers, which includes multi-carrier EBB HO and HO with secondary carrier pre-assignment as described in<del>~~this section~~ </del><ins>16.2.8.2.9.2.2 and 16.2.8.2.9.2.3 respectively</ins>.

**GroupResolution**                    **Decision of Group:**   **Agree**

[Modify the text in line 44 on page 341 as follows]

The multicarrier handover (MCHO) is defined as the handover procedure which involves multiple radio carriers, which includes multi-carrier EBB HO and HO with secondary carrier pre-assignment as described in<del>~~this section~~ </del><ins>16.2.8.2.9.2.2 and 16.2.8.2.9.2.3 respectively</ins>.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**                   **Editor's Actions**     a) done

| **Comment by:** | | Soojung Jung | **Membership Status:** | Member | | **Date:** 2010-09-09 |

**Comment #** **B10106**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 343   **Line** 46     **Fig/Table#**     **Subclause** 16.2.8.2.9.2.3

The AAI-HO-CMD message does not include "Carrier_Preassignment_Indication" and "Carrier Status Bitmap".
The physical carrier index and carrier status indication of pre-assigned carrier are provided  through the AAI-HO-CMD message.

**Suggested Remedy**

adopt the proposed text in the latest version of contribution C802.16m-10/1164

**GroupResolution**                    **Decision of Group:**   **Agree**

adopt the proposed text in contribution C802.16m-10/1164

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**              **Editor's Actions**     a) done

| **Comment by:** | Jeongki  Kim | | **Membership Status:** | Member | | **Date:** 2010-09-09 |

| **Comment #** B10107 | | **Document under Review:** P802.16m/D8 | | **Ballot ID:** sb_16m |

**Comment**  **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 346    **Line** 9    **Fig/Table#**    **Subclause** 16.2.8.2.10.2

There is no definition of E-MBS AMS in spec. According to the related sentence it can be defined as the AMS which subscribes E-MBS serivce.

**Suggested Remedy**

[Modify the related sentence as follows, on page 346, line 9]
For an <del>E-MBS</del> AMS<ins> which subscribes E-MBS service </ins>, the AAI-PAG-ADV message shall be transmitted in the same carrier as the carrier on which E-MBS is provided. In this case, the AMS does not use equation (5).

**GroupResolution**                    **Decision of Group:**   **Agree**

[Modify the related sentence as follows, on page 346, line 9]
For an <del>E-MBS</del> AMS<ins> which subscribes E-MBS service </ins>, the AAI-PAG-ADV message shall be transmitted in the same carrier as the carrier on which E-MBS is provided. In this case, the AMS does not use equation (5).

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**              **Editor's Actions**      a) done

| | | | |
|---|---|---|---|
| **Comment  by:** | Soojung  Jung | **Membership Status:**  Member | **Date:**  2010-09-09 |

**Comment #**  **B10108**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**          **Type** Editorial          **Part of Dis** ☐  **Satisfied** ☐          **Page** 346   **Line** 42          **Fig/Table#**          **Subclause** 16.2.8.2.11.1

The correct name of  the Message ACK EH is the MAC Contorl ACK Extended Header (MAEH)

**Suggested Remedy**

[Modify texts on page 346 line 42 as follows]

transmits an AAI-MSG-ACK message or <ins> MAEH </ins> <del> Message ACK EH </del>to inform

[Modify texts on page 349 line 7 as follows]

the AAI-MSG-ACK message or <ins> MAEH </ins> <del> Message ACK EH </del> in response

**GroupResolution**                    **Decision of Group:**   **Agree**

[Modify texts on page 346 line 42 as follows]

transmits an AAI-MSG-ACK message or <ins> MAEH </ins> <del> Message ACK EH </del>to inform

[Modify texts on page 349 line 7 as follows]

the AAI-MSG-ACK message or <ins> MAEH </ins> <del> Message ACK EH </del> in response

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**                    **Editor's Actions**      a) done

**Comment  by:**          Eunjong   Lee                    **Membership Status:**   Member                    **Date:** ?

**Comment #  B10109**                    **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐   **Satisfied** ☐     **Page** 347     **Line** 18     **Fig/Table#** 773     **Subclause** 16.2.8.2.11.1

In the last meeting, we defined the CA-specific trigger definitions for assigned secondary carriers of smaller coverage. However, it may lead to some unnecessary scanning/reporting. So, we'd like to clean up some points related to the CA trigger issues.

**Suggested Remedy**

adopt the proposed text in the latest version of contribution C802.16m-10/1160

**GroupResolution**                    **Decision of Group:**   **Principle**

adopt the proposed text in contribution C802.16m-10/1160r3

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**                    **Editor's Actions**     a) done

**Comment  by:**            Eunjong  Lee            **Membership Status:**   Member            **Date:** ?

**Comment #  B10110**            **Document under Review:**  **P802.16m/D8**            **Ballot ID:  sb_16m**

**Comment**       **Type** Technical       **Part of Dis** ☐ **Satisfied** ☐       **Page** 347   **Line** 46       **Fig/Table#** 772       **Subclause** 16.2.8.2.11.1

Incorrect bit size. The type/function/action in Table 773 is 4 bits.

**Suggested Remedy**

[modify the bit size in Table 772 as follows]

Table 772—CA-specific Trigger Description
---------------------------------------------------------------------------------------------------------------------------

 Type/Function/Action  |  <dle>5 </del><ins>4</ins>   |  See Table 773—for description     |
---------------------------------------------------------------------------------------------------------------------------


**GroupResolution**                    **Decision of Group:**   **Principle**

Resolved by Comment #B10109:
adopt the proposed text in contribution C80216m-10_1160r3


**Reason for Group's Decision/Resolution**


**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**                    **Editor's Actions**      b) none needed

**Comment by:**       Eunjong  Lee            **Membership Status:**    Member            **Date:** ?

**Comment #**   **B10111**                 **Document under Review:**   **P802.16m/D8**         **Ballot ID:**   **sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐   **Satisfied** ☐      **Page** 349   **Line** 37      **Fig/Table#**      **Subclause** 16.2.8.2.11.2

For clean-up

**Suggested Remedy**

[Modify the text in line 7 on page 339 as follows]

PCC-specific triggers use the format in Table 770—<ins>Trigger Description defined for HO procedure </ins> , where only function types 0x1, 0x2, 0x3 and 0x4 and actions types 0x1 and 0x3 are allowed.

**GroupResolution**              **Decision of Group:**   **Principle**

[Modify the text in line 7 on page 339 as follows]

PCC-specific triggers use the format in Table 770—<ins>Trigger Description</ins> , where only function types 0x1, 0x2, 0x3 and 0x4 and actions types 0x1 and 0x3 are allowed.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.8; MAC Multicarrier

**Editor's Notes**            **Editor's Actions**     a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Seunghyun Kang | **Membership Status:** | **Date:** 2010-09-09 |

**Comment #** **B10112**      **Document under Review:** **P802.16m/D8**      **Ballot ID:** **sb_16m**

**Comment**    **Type** Editorial      **Part of Dis** ☐ **Satisfied** ☐      **Page** 358   **Line** 6      **Fig/Table#**      **Subclause** 16.2.10

The subclause number 16.3.6.5.2.4 is incorrect.
The subclause number for 'Assignment A-MAP IE' is 16.3.5.5.2.4 in D8.

**Suggested Remedy**

In line 6, modify the text as follows:
As specified in <del>16.3.6.5.2.4</del> <ins>16.3.5.5.2.4</ins>, messages sent over unicast connections are distinguished by either:

In line 13~14, modify the text as follows:
Messages sent over broadcast connections are distinguished by the 16-bit CRC masking in the broadcast assignment A-MAP IEs as specified in <del>16.3.6.5.2.4</del> <ins>16.3.5.5.2.4</ins>.

**GroupResolution**          **Decision of Group:** **Agree**

In line 6, modify the text as follows:
As specified in <del>16.3.6.5.2.4</del> <ins>16.3.5.5.2.4</ins>, messages sent over unicast connections are distinguished by either:

In line 13~14, modify the text as follows:
Messages sent over broadcast connections are distinguished by the 16-bit CRC masking in the broadcast assignment A-MAP IEs as specified in <del>16.3.6.5.2.4</del> <ins>16.3.5.5.2.4</ins>.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.10; MAC Connection Management

**Editor's Notes**          **Editor's Actions**   a) done

| **Comment by:** | Jaesun Cha | **Membership Status:** | Member | **Date:** ? |
|---|---|---|---|---|

**Comment #** **B10113**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 358   **Line** 38   **Fig/Table#**   **Subclause** 16.2.10.2

FID for the default service flow is 0b0011, not 0b0010.

**Suggested Remedy**

All user data communications are in the context of transport connections. A transport connection is uni-directional, and identified by a unique FID which is assigned during the DSA procedure per section 16.2.12.2, excluding the transport connections associated with the default service flows. The transport connections for the default service flows in uplink and downlink direction are each identified by the pre-assigned FID (FID = ~~0010~~0011) and established by the Registration procedure during network entry.

**GroupResolution**                    **Decision of Group:**   **Agree**

All user data communications are in the context of transport connections. A transport connection is uni-directional, and identified by a unique FID which is assigned during the DSA procedure per section 16.2.12.2, excluding the transport connections associated with the default service flows. The transport connections for the default service flows in uplink and downlink direction are each identified by the pre-assigned FID (FID = ~~0010~~0011) and established by the Registration procedure during network entry.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.10; MAC Connection Management

**Editor's Notes**                **Editor's Actions**      a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Hyunkyu Yu | **Membership Status:** Member | **Date:** 2010-09-09 |

**Comment #**   **B10114**                **Document under Review:**   **P802.16m/D8**         **Ballot ID:**   **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 359    **Line** 50      **Fig/Table#**        **Subclause** 16.2.11.1.1

Some text about BR opportunity index is unclear in 16.2.11.1.1. BR channels in this subclause are not for legacy systems, but for AAI systems.

**Suggested Remedy**

[Modify the text in page 359, line 50, subclause 16.2.11.1.1 as]

<del>For</del> <ins>When frame structure is supporting the</ins> WirelessMAN-OFDMA R1 Reference System with FDM-based UL PUSC Zone, bandwidth request channels are mapped to opportunity indices in a frequency-first order.b

**GroupResolution**                 **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 16, 12, 0
remedy does not solve the problem statement

**Group's Notes**

Clause 16.2.11; MAC Bandwidth Request and Allocation

**Editor's Notes**             **Editor's Actions**     b) none needed

**Comment  by:**        Jaehyuk  Jang              **Membership Status:**   Member              **Date:** 2010-09-07

**Comment #  B10115**              **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**        **Type** Technical        **Part of Dis** ☐  **Satisfied** ☐        **Page** 360        **Line** 17        **Fig/Table#**              **Subclause** 16.2.11.1.1

Based on the current text (In case of multiple BR-ACK A-MAP IEs are transmitted in a single subframe, the BR opportunities acknowledged in each BR-ACK A-MAP IE shall be mutual exclusive.), an ABS cannot indicate the Ack if it receves more than 4 BR preambles in one opportunity. BR-ACK A-MAP IE can only acknowledge maximum 4 BR preambles. Text needs to be clarified.

**Suggested Remedy**

[Modify the following sentence in pp. 360, line 17 in D8:]

<del>~~In case of multiple BR-ACK A-MAP IEs are transmitted in a single subframe, t~~</del><ins>T</ins>he <ins>BR preambles in </ins>BR opportunities acknowledged in each BR-ACK A-MAP IE shall be mutual exclusive.

**GroupResolution**                        **Decision of Group:**   **Principle**

[Modify the following sentence in pp. 360, line 17 in D8:]

<del>~~In case of multiple BR-ACK A-MAP IEs are transmitted in a single subframe, t~~</del><ins>T</ins>he <ins>BR preamble sequence indices in </ins>BR opportunities acknowledged in each BR-ACK A-MAP IE shall be mutual exclusive.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.11; MAC Bandwidth Request and Allocation

**Editor's Notes**                        **Editor's Actions**        a) done

| **Comment_by:** | Jaehyuk Jang | **Membership Status:** | Member | **Date:** 2010-09-07 |
|---|---|---|---|---|

**Comment #** **B10116**     **Document under Review:** **P802.16m/D8**     **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 360   **Line** 65   **Fig/Table#**   **Subclause** 16.2.11.1.1

Based on D8, BR backoff start & end parameters are presented both in the S-SFH SP3 and the DSx messages. If BR backoff start/end parameters in DSx messages are omitted, the value in S-SFH SP3 should be used for the flow. That text is missing in D8.

**Suggested Remedy**

[Add the following sentences in pp. 360, line 65 in D8:]

<ins>If the DSx messages does not include backoff window parameters (BR backoff start and BR backoff end), the values specified in the S-SFH SP3 shall be used for the service flow. Otherwise, the values in the DSx messages shall override the values in the S-SFH SP3 for the service flow.</ins>

**GroupResolution**                **Decision of Group:**   **Principle**

The connection priority is defined by the tuple of <del>contention window parameters and the number of retries.</del> <ins>initial and maximum window sizes and a backoff window scaling factor. The backoff scaling factor is the base of the exponent in an exponential backoff. For instance, with a backoff scaling factor of B, an initial window size of S will increase to B*S at backoff stage 1, B*B*S at backoff stage 2, B*B*B*S at backoff stage 3, and so on. Note that for the specific value of B=2, this is precisely the binary exponential backoff.</ins> The ABS transmits initial connection priority parameters - initial and maximum window sizes and backoff window scaling factor - in DSx-REQ and/or DSx-RSP messages. <ins>If the DSx messages does not include backoff window parameters (BR backoff start, BR backoff end, and backoff window scaling factor), the values specified in the S-SFH SP3 shall be used for the service flow, with a default backoff scaling factor of 2 (indicating a binary exponential backoff). Otherwise, the values in the DSx messages shall override the values in the S-SFH SP3 for the service flow.</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.11; MAC Bandwidth Request and Allocation

**Comment  by:**          Jaehyuk  Jang          **Membership Status:**    Member          **Date:**  2010-09-07

**Comment #**  **B10117**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**      **Type**  Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page**  362    **Line**  28      **Fig/Table#**          **Subclause**  16.2.11.1.1

In 5-step bandwidth request procedure, BR sequence shall be randomly selected among 24 BR preambles. To avoid collision, first, an MS needs to select a ramdom backoff window value from the current backoff window size. In addition to that, the MS also needs to select a ramdom BR preamble so that the collision probability has an uniform distribution. Otherwise, collision probability will vary depending on the situation, and contention resolution may not be achieved properly.

**Suggested Remedy**

[Modify the sentence in pp. 362, line 28 in D8:]

In the regular 5-step random access BR procedure, an AMS shall send a BR preamble sequence only<ins> which is randomly selected among 24 BR preambles</ins>.

**GroupResolution**                    **Decision of Group:**    **Principle**

Resolved by comment #B196:

<802.16m/D8, page 362, line 28>
In the regular 5-step random access BR procedure, an AMS shall send a BR preamble sequence only. <ins> The AMS should select the BR preamble randomly among 24 BR preamble indices.</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.11; MAC Bandwidth Request and Allocation

**Editor's Notes**          **Editor's Actions**      b) none needed

**Comment  by:**          Jaesun  Cha          **Membership Status:**   Member          **Date:** ?

**Comment #  B10118**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 363   **Line** 29     **Fig/Table#**          **Subclause** 16.2.11.1.4.2

The following paragraph which describes the operation of ertPS/aGP BR indicator is confusing.

"If an AMS has ertPS connections only, the ertPS/aGP BR indicator indicates that the AMS is requesting an UL burst corresponding to the largest Maximum Sustained Traffic Rate of the AMS's stopped ertPS UL service flows. If the connection for which AMS uses the UL allocation based on this codeword is a stopped ertPS UL service flow, the codeword implicitly indicates the stopped ertPS UL service flow to resume."

The first sentence says that the target service flow is selected among stopped ertPS service flows. But, the second sentence describes the operation as if target service flow can be selected among all ertPS service flows.

**Suggested Remedy**

If an AMS has ertPS connections only, the ertPS/aGP BR indicator indicates that the AMS is requesting an UL burst corresponding to the largest Maximum Sustained Traffic Rate of the AMS's stopped ertPS UL service flows. ~~If the connection for which AMS uses the UL allocation based on this codeword is a stopped ertPS UL service flow, the~~The codeword also implicitly indicates the stopped ertPS UL service flow to resume.

**GroupResolution**                    **Decision of Group:**   **Agree**

If an AMS has ertPS connections only, the ertPS/aGP BR indicator indicates that the AMS is requesting an UL burst corresponding to the largest Maximum Sustained Traffic Rate of the AMS's stopped ertPS UL service flows. ~~If the connection for which AMS uses the UL allocation based on this codeword is a stopped ertPS UL service flow, the~~The codeword also implicitly indicates the stopped ertPS UL service flow to resume.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.11; MAC Bandwidth Request and Allocation

**Editor's Notes**          **Editor's Actions**     a) done

| **Comment  by:** | Jaesun  Cha | **Membership Status:** Member | **Date:** ? |
|---|---|---|---|

**Comment #  B10119**　　　　　　　**Document under Review:  P802.16m/D8**　　　　　　**Ballot ID:  sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 364　**Line** 46　　**Fig/Table#**　　**Subclause** 16.2.11.1.5.2

A Standalone Bandwidth Request Header can not be used to request bandwidth for multiple service flows. Only a Piggybacked Bandwidth Request Extended Header can be used for multiple service flows.

**Suggested Remedy**

• FID of the requesting connection
• Aggregate or incremental bandwidth ~~to request for one or multiple flows~~
• New GPI value for aGP service or minimum delay of the requested grant for BE
• GPI change indicator for aGP service

**GroupResolution**　　　　　　　　　**Decision of Group:**　**Agree**

• FID of the requesting connection
• Aggregate or incremental bandwidth ~~to request for one or multiple flows~~
• New GPI value for aGP service or minimum delay of the requested grant for BE
• GPI change indicator for aGP service

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.11; MAC Bandwidth Request and Allocation

**Editor's Notes**　　　　　　**Editor's Actions**　　a) done

| | | | | |
|---|---|---|---|---|
| **Comment_by:** | Jie  Hui | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #** B10120          **Document under Review:** P802.16m/D8          **Ballot ID:** sb_16m

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 366     **Line** 45     **Fig/Table#** 780,     **Subclause** 16.2121162

Field Tolerated Jitter and Traffic Priority are also QoS parameters for aGP service.
The table 780 (page 366) and 783 (page 376) need to be updated to reflect it.

**Suggested Remedy**

Table 780
    Field L1:      This is available only for Uplink Grant Scheduling Type = ertPS, aGP service or UGS. This field is included when I=0 and S2 =5 ~~or~~ 6,or 7.

    Field S3:      This is used only for Uplink Grant Scheduling Type = rtPS, ertPS, nrtPS, aGP service or BE.This field in included when I=0 and S2=2 or 3 or 4 ~~or~~ 5, or 7.

Table 783
    Field L1:      This is available only for Uplink Grant Scheduling Type = ertPS, aGP service or UGS.

    Field S3:      This is used only for Uplink Grant Scheduling Type = rtPS, ertPS, nrtPS, aGP service or BE.

**GroupResolution**                    **Decision of Group:**   **Agree**

Table 780
    Field L1:      This is available only for Uplink Grant Scheduling Type = ertPS, aGP service or UGS. This field is included when I=0 and S2 =5 ~~or~~ 6,or 7.

    Field S3:      This is used only for Uplink Grant Scheduling Type = rtPS, ertPS, nrtPS, aGP service or BE.This field in included when I=0 and S2=2 or 3 or 4 ~~or~~ 5, or 7.

Table 783
    Field L1:      This is available only for Uplink Grant Scheduling Type = ertPS, aGP service or UGS.

    Field S3:      This is used only for Uplink Grant Scheduling Type = rtPS, ertPS, nrtPS, aGP service or BE.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.12; MAC QoS

**Comment  by:**          Jaehyuk   Jang                    **Membership Status:**   Member                    **Date:**  2010-09-07

**Comment #**  **B10121**                    **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**     **Type**  Technical     **Part of Dis** ☐  **Satisfied** ☐          **Page** 367   **Line** 55          **Fig/Table#**          **Subclause**  16.2.12.2

Support of specific scheduling services is a part of the profiling issue. Operators and vendors will decide which scheduling services need to be supported in the real deployed system.

**Suggested Remedy**

[Delete the sentences in pp. 367, line 55 in D8 as follows:]

<del>~~The AMS and the ABS shall support adaptation of service flow (SF) QoS parameters.~~</del>

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 2, 4, 0
aGPS is a desired feature to improve system performance

**Group's Notes**

Clause 16.2.12; MAC QoS

**Editor's Notes**          **Editor's Actions**          b) none needed

| **Comment by:** | Jie  Hui | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #** **B10122**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 368   **Line** 58      **Fig/Table#**          **Subclause** 16.2.12.3.1

The language is not consistent.

secondary SF QoS parameter set should be changed to seoncdary QoS parameters as used in other parts of this section

**Suggested Remedy**

revised as below:

ABS-initiated adaptation: ABS may initiate the GPI and grant size change by sending the unsolicited adaptation response carried in the Service Specific Scheduling Control Header. The adaptation may be either changes of GPI and/or Grant size; or switches between GPI_primary/ Grant_Size_primary and GPI_secondary/Grant_Size_secondary if secondary ~~SF~~ QoS parameter~~s~~ ~~set~~ is defined. The AMS shall respond by sending adaptation ACK or adaptation NACK carried by the Service Specific Scheduling Control header to acknowledge or reject ABS-suggested QoS parameters. The new QoS parameters start to be effective after Adaptation ACK is received.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 2-5-0

SF QoS parameter set is defined in the current draft

**Group's Notes**

Clause 16.2.12; MAC QoS

**Editor's Notes**              **Editor's Actions**     b) none needed

| **Comment  by:** | Jeongki  Kim | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #  B10123**            **Document under Review:**  **P802.16m/D8**            **Ballot ID:**  **sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 369   **Line** 27      **Fig/Table#**      **Subclause** 16.2.12.3.1

In AMS initiated adaptation the adaptation start time is determined by Adaptation Start Frame Offset in SSSCH sent by ABS. And the Adaptation Start Frame offset of zero means the adaptation takes effect immediately upon receiving of this SSSCH.
Clean up the related texts and figure.

**Suggested Remedy**

Adopt the Text proposals in C802.16m-10/1222 or the latest revision of the contribution.

**GroupResolution**                **Decision of Group:**  **Agree**

Adopt the Text proposals in C802.16m-10/1222.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.12; MAC QoS

**Editor's Notes**                **Editor's Actions**      a) done

| **Comment by:** | | Jie Hui | | **Membership Status:** | Member | | **Date:** 2010-09-08 |

| **Comment #** **B10124** | | **Document under Review:** **P802.16m/D8** | | **Ballot ID:** **sb_16m** |

**Comment** **Type** Editorial **Part of Dis** ☐ **Satisfied** ☐ **Page** 369 **Line** 38 **Fig/Table#** **Subclause** 16.2.12.3.1

address grammar error

**Suggested Remedy**

GPI and grant size switches between GPI_primary/ Grant_Size_primary and GPI_secondary/Grant_Size_secondary <u>as</u> indicated by the adaptation request carried by the Service Specific Scheduling Control header,

**GroupResolution** **Decision of Group:** **Agree**

GPI and grant size switches between GPI_primary/ Grant_Size_primary and GPI_secondary/Grant_Size_secondary <u>as</u> indicated by the adaptation request carried by the Service Specific Scheduling Control header,

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.12; MAC QoS

**Editor's Notes** **Editor's Actions** a) done

**Comment  by:**          Jie  Hui                    **Membership Status:**   Member          **Date:** 2010-09-08

**Comment #  B10125**              **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 371     **Line** 43          **Fig/Table#** 782     **Subclause**  16.2.12.3.1

Adaptation Method is not needed in QoS parameters of AAI aGP service flow.
Also the x bytes should be specified, which was TBD before.


**Suggested Remedy**

Line 43:

~~Adaptation Method = ABS-initiated adaptation or~~
~~AMS-initiated adaptation~~
GrantSize_primary != 6 ~~x~~ bytes ~~(the newly defined bandwidth request header size)~~


Line 50:

~~Adaptation Method = ABS-initiated adaptation or~~
~~AMS-initiated adaptation~~
GrantSize_primary = 6 ~~x~~ bytes ~~(the newly defined bandwidth request header size)~~


**GroupResolution**                    **Decision of Group:**   **Agree**


Line 43:

~~Adaptation Method = ABS-initiated adaptation or~~
~~AMS-initiated adaptation~~
GrantSize_primary != 6 ~~x~~ bytes ~~(the newly defined bandwidth request header size)~~


Line 50:

~~Adaptation Method = ABS-initiated adaptation or~~
~~AMS-initiated adaptation~~
GrantSize_primary = 6 ~~x~~ bytes ~~(the newly defined bandwidth request header size)~~


**Reason for Group's Decision/Resolution**


**Group's Notes**

Clause 16.2.12; MAC QoS

**2010/10/06**                                                              **IEEE 802.16-10/0047r4**

**Comment  by:**          Joey  Chou              **Membership Status:**   Member              **Date:**  2010-09-08

**Comment #**  **B10126**                  **Document under Review:**  **P802.16m/D8**            **Ballot ID:**  **sb_16m**

**Comment**      **Type** Editorial      **Part of Dis** ☐  **Satisfied** ☐      **Page**  378    **Line**  1        **Fig/Table#**  783      **Subclause**  16.2.12.8

The table is out of page boundary

**Suggested Remedy**

Fix the table location

**GroupResolution**                **Decision of Group:**   **Agree**

Fix the table location

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.12; MAC QoS

**Editor's Notes**          **Editor's Actions**      a) done

| Comment by: | Joey Chou | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #** **B10127**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 379   **Line** 48   **Fig/Table#** 784   **Subclause** 16.2.12.8

ROHC MRRU needs clarification

**Suggested Remedy**

Value column

The size of the largest reconstructed unit in octets that the decompressor is expected to reassemble from segments
0: no segmentation
 <del>Otherwise </del><ins> 1..65535</ins> : MRRU <ins>Maximum reconstructed reception unit</ins>

**GroupResolution**                    **Decision of Group:**   **Agree**

Value column

The size of the largest reconstructed unit in octets that the decompressor is expected to reassemble from segments
0: no segmentation
 <del>Otherwise </del><ins> 1..65535</ins> : MRRU <ins>Maximum reconstructed reception unit</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.12; MAC QoS

**Editor's Notes**              **Editor's Actions**      a) done

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Jaesun Cha | **Membership Status:** | Member | **Date:** ? |

**Comment #** **B10128**        **Document under Review:** **P802.16m/D8**        **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 382    **Line** 28    **Fig/Table#**    **Subclause** 16.2.13.1.1

Since an ARQ block may be constructed by fragmenting MAC SDU or packing MAC SDUs and/or MAC SDU fragments, the fragmentation information (e.g., FC) will be included in FEH as well as PEH.

**Suggested Remedy**

ARQ block is constructed by fragmenting MAC SDU or packing MAC SDUs and/or MAC SDU fragments. The fragmentation information for the ARQ block is included in MAC PDU using a FEH or a PEH.

**GroupResolution**                **Decision of Group:**  **Principle**

ARQ block is constructed by fragmenting MAC SDU or packing MAC SDUs and/or MAC SDU fragments. The fragmentation information for the ARQ block is included in MAC PDU using a FEH <ins> or a PEH. The packing information of MAC SDUs and/or MAC SDU fragments is included in MAC PDU using a PEH.</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.13; MAC ARQ

**Editor's Notes**        **Editor's Actions**    a) done

| | | |
|---|---|---|
| **Comment by:** Chung-Pao Chen | **Membership Status:** Member | **Date:** 2010-09-08 |

**Comment #** **B10129**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 382   **Line** 28    **Fig/Table#**          **Subclause** 16.2.13.1.1

The definition of PEH is incomplete.

**Suggested Remedy**

Append the following sentence to the end of line 29 on page 382:
The packing and/or fragmentation information for the ARQ block is included in MAC PDU using a PEH.

**GroupResolution**                    **Decision of Group:**  **Principle**

Resolved by comment #B10128:

ARQ block is constructed by fragmenting MAC SDU or packing MAC SDUs and/or MAC SDU fragments. The fragmentation information for the ARQ block is included in MAC PDU using a FEH or a PEH. The packing information of MAC SDUs and/or MAC SDU fragments is included in MAC PDU using a PEH.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.13; MAC ARQ

**Editor's Notes**          **Editor's Actions**    b) none needed

| | | | | | |
|---|---|---|---|---|---|
| **Comment by:** | Chung-Pao Chen | | **Membership Status:** Member | | **Date:** 2010-09-08 |

**Comment #** **B10130**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☐  **Satisfied** ☐          **Page** 382     **Line** 58          **Fig/Table#**          **Subclause** 16.2.13.1.2

There is no definition for SUB_SN. It should be replaced as sub-block SN.

**Suggested Remedy**

Rewrite as:
ARQ sub-blocks are sequentially numbered using ARQ ~~block SUB_SN~~ sub-block SN (SSN).

**GroupResolution**                    **Decision of Group:**  **Agree**

Rewrite as:
ARQ sub-blocks are sequentially numbered using ARQ ~~block SUB_SN~~ sub-block SN (SSN).

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.13; MAC ARQ

**Editor's Notes**          **Editor's Actions**     a) done

| **Comment  by:** | Anil  Agiwal | **Membership Status:** | Member | **Date:** ? |

**Comment #  B10131**        **Document under Review:  P802.16m/D8**        **Ballot ID:  sb_16m**

**Comment**    **Type** Technical     **Part of Dis** [ ]  **Satisfied** [ ]     **Page** 384     **Line**        **Fig/Table#**        **Subclause** 16.2.13

The ARQ feedback is transmitted using multiple ways in D8. There is no advantage in transmitting ARQ feedback using multiple methods. It only increases complexity.

**Suggested Remedy**

Adopt the proposed text in contribution C802.16m-10/1093

**GroupResolution**                        **Decision of Group:**    **Principle**

[Change 1: Delete section 16.2.2.2.7 ARQ Feedback Extended Header (AFEH)]

[Change 2: Delete table 787 on page 384]

[Change 3: Modify section 16.2.13.2 on page 383, lines 49-60 as shown below]

16.2.13.2 ARQ feedback

16.2.13.2.1 ARQ feedback IE transmission
Table 787 defines the ARQ Feedback IE. AAI-ARQ-Feedback MAC control message It is used by the receiver to signal positive or negative acknowl¬edgments for ARQ block and sub-blocks. ARQ feedback IEs in Table 787 may be transported either as a part of extended header ("piggybacked") within a MAC PDU or a standalone MAC control message. The ARQ receiver may transmit the ARQ feedback IE in a standalone MAC control message and use the MAC layer acknowledgment as defined in section 16.2.22 to reliably transmit the unsolicited ARQ feedback.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.13; MAC ARQ

**Editor's Notes**                **Editor's Actions**     a) done

| **Comment by:** | Jaesun Cha | **Membership Status:** Member | **Date:** ? |
|---|---|---|---|

**Comment #** B10132     **Document under Review:** P802.16m/D8     **Ballot ID:** sb_16m

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 386     **Line** 22     **Fig/Table#**     **Subclause** 16.2.13.2.2

Accroding to the current draft, ABS may assign unsolicited bandwidth to request AMS to send ARQ feedback. But, the unsolicited bandwidth allocation is not defined as one of feedback trigger conditions defined in 16.2.13.2.3. In addition, if there are multiple connections, how can AMS know that the UL bandwidth allocated in unsolicited manner is dedicated for ARQ feedback? A-MAP IE does not contain FID.

**Suggested Remedy**

Transmitter uses ARQ feedback poll to update the reception status of the transmitted ARQ blocks. The ARQ feedback poll is sent using a APEH (see 16.2.2.2.9). When transmitter sends ARQ feedback poll, ARQ_Polling_Timeout is started. If there is no ARQ feedback from the receiver during ARQ_Polling_Timeout, the transmitter may retry the ARQ feedback poll. Transmitter shall perform ARQ feedback poll when ARQ buffer is full or the last ARQ block in the "not sent" state is sent.

~~In downlink, an ABS may assign unsolicited bandwidth using A-MAP for the AMS to send the cumulative ACK information as an ARQ feedback. When the unsolicited bandwidth is granted to AMS, AMS should send ARQ feedback. If the granted bandwidth is not enough for sending ARQ feedback IE for cumulative ACK information, MS should send BW request header instead of sending ARQ feedback.~~

**GroupResolution**                         **Decision of Group:**     **Principle**

Transmitter uses ARQ feedback poll to update the reception status of the transmitted ARQ blocks. The ARQ feedback poll is sent using a APEH (see 16.2.2.2.9). When transmitter sends ARQ feedback poll, ARQ_Polling_Timeout is started. If there is no ARQ feedback from the receiver during ARQ_Polling_Timeout, the transmitter may retry the ARQ feedback poll. Transmitter shall perform ARQ feedback poll when ARQ buffer is full or the last ARQ block in the "not sent" state is sent.

In downlink, <ins>after transmitting APEH,</ins> an ABS may assign unsolicited bandwidth using A-MAP for the AMS to send the cumulative ACK information as an ARQ feedback. When the unsolicited bandwidth is granted to AMS, AMS should send ARQ feedback. If the granted bandwidth is not enough for sending ARQ feedback IE for cumulative ACK information, MS should send BW request header instead of sending ARQ feedback.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.13; MAC ARQ

**Editor's Notes**          **Editor's Actions**     a) done

**Comment  by:**              Jaesun  Cha                     **Membership Status:**    Member                        **Date:** ?

**Comment #  B10133**                          **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**       **Type** Editorial       **Part of Dis** ☐  **Satisfied** ☐       **Page**  387   **Line**  20         **Fig/Table#**              **Subclause**  16.2.13.3.7

editorial change

**Suggested Remedy**

ARQ_SYNC_LOSS_TIMEOUT is defined in <<<6.3.4.3.5>>>

**GroupResolution**                         **Decision of Group:**   **Agree**

ARQ_SYNC_LOSS_TIMEOUT is defined in <<<6.3.4.3.5>>>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.13; MAC ARQ

**Editor's Notes**                    **Editor's Actions**       a) done

| **Comment by:** | Seunghyun Kang | **Membership Status:** | | **Date:** 2010-09-09 |

| **Comment #** B10134 | | **Document under Review:** P802.16m/D8 | **Ballot ID:** sb_16m |

**Comment**   **Type** Editorial   **Part of Dis** ☐   **Satisfied** ☐   **Page** 398   **Line** 13   **Fig/Table#**   **Subclause** 16.2.14.2

The subclause number 16.3.6.5.2.4 is incorrect.
The subclause number for 'Assignment A-MAP IE' is 16.3.5.5.2.4 in D8.

**Suggested Remedy**

In line 13, modify the text as follows:
… but the details can be different according to its specific operation defined in <del>~~16.3.6.5.2.4~~</del> <ins><u>16.3.5.5.2.4</u></ins>.

**GroupResolution**                **Decision of Group:**   **Agree**

In line 13, modify the text as follows:
… but the details can be different according to its specific operation defined in <del>~~16.3.6.5.2.4~~</del> <ins><u>16.3.5.5.2.4</u></ins>.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.14; MAC HARQ

**Editor's Notes**                **Editor's Actions**     a) done

| Comment by: | Hyunkyu Yu | Membership Status: | Member | Date: | 2010-09-09 |

| Comment # | **B10135** | Document under Review: | **P802.16m/D8** | Ballot ID: | **sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 398    **Line** 51    **Fig/Table#**    **Subclause** 16.2.14.2.1.1

A10110 (10/0828r2) was not correctly implemented in D8. Also, I suggest to remove "maximum" from "maximum T_ReTx_Interval", "maximum DL_N_MAX_ReTx", and "maximum UL_N_MAX_ReTx". Because T_ReTx_Interval, DL_N_MAX_ReTx, and UL_N_MAX_ReTx imply maximum values.

**Suggested Remedy**

[Remedy-1: change the text in page 398, line 51, subclause 16.2.14.2.1.1 as follows:]
The delay between two consecutive HARQ transmissions of the same data burst shall not exceed <del>the maximum</del> T_ReTx_Interval <ins>which is signaled via AAI_SCD message</ins>. The number of retransmissions of the same data burst shall not exceed <del>the maximum</del> DL_N_MAX_ReTx.

[Remedy-2: change the text in page 399, line 31, subclause 16.2.14.2.1.2 as follows:]
The number of retransmissions of the same data burst shall not exceed <del>the maximum</del> UL_N_MAX_ReTx.

**GroupResolution**                    **Decision of Group:**  **Agree**

[Remedy-1: change the text in page 398, line 51, subclause 16.2.14.2.1.1 as follows:]
The delay between two consecutive HARQ transmissions of the same data burst shall not exceed <del>the maximum</del> T_ReTx_Interval <ins>which is signaled via AAI_SCD message</ins>. The number of retransmissions of the same data burst shall not exceed <del>the maximum</del> DL_N_MAX_ReTx.

[Remedy-2: change the text in page 399, line 31, subclause 16.2.14.2.1.2 as follows:]
The number of retransmissions of the same data burst shall not exceed <del>the maximum</del> UL_N_MAX_ReTx.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.14; MAC HARQ

**Editor's Notes**                    **Editor's Actions**    a) done

**Comment by:**    Seunghyun Kang            **Membership Status:**                  **Date:** 2010-09-09

**Comment #** **B10136**              **Document under Review:** **P802.16m/D8**           **Ballot ID:** **sb_16m**

**Comment**     **Type** Editorial      **Part of Dis** ☐ **Satisfied** ☐     **Page** 402    **Line** 34       **Fig/Table#**       **Subclause** 16.2142212

There is no use of the parameter 'n' in the subclause 16.2.14.2.2.1.2.

**Suggested Remedy**

In line 34, remove the parameter 'n' as follows:
The AAI subframe index m<del>, n</del> and frame index j, k, p shall be calculated as shown in Table 789.

**GroupResolution**             **Decision of Group:** **Agree**

In line 34, remove the parameter 'n' as follows:
The AAI subframe index m<del>, n</del> and frame index j, k, p shall be calculated as shown in Table 789.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.14; MAC HARQ

**Editor's Notes**            **Editor's Actions**     a) done

| **Comment by:** | YoungKyo Baek | | | **Membership Status:** | Member | | **Date:** 2010-09-09 |

**Comment #** B10137  **Document under Review:** P802.16m/D8  **Ballot ID:** sb_16m

**Comment**  **Type** Technical  **Part of Dis** ☐ **Satisfied** ☐  **Page** 414  **Line** 64  **Fig/Table#**  **Subclause** 16.2.15

When AMS performs network entry, if the AMS does not receive yet AAI_SCD message before preferred cell selection, the AMS may not know the attaching BS's type. We need clarification on how AMS to work in this situation.
In this case AMS should wait for the broadcast AAI_SCD message to select correctly preferred cell. But the AMS may perform NW entry at the ABS  first and then the AMS can handover to its preferred cell.

**Suggested Remedy**

In network entry, if the AMS cannot attach to the preferred cell <ins> or does not know the attaching BS's type</ins>, the AMS may choose to perform a network entry without any preference of the BS type, even though the AMS has preference of the BS type in general.

**GroupResolution**  **Decision of Group:** **Disagree**

**Reason for Group's Decision/Resolution**

the text is redundant

**Group's Notes**

Clause 16.2.15; MAC Network Entry and Initialization

**Editor's Notes**  **Editor's Actions**  b) none needed

| **Comment by:** | YoungKyo Baek | | **Membership Status:** | Member | | **Date:** | 2010-09-09 |

**Comment #** **B10138**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Editorial     **Part of Dis** ☐   **Satisfied** ☐     **Page** 419     **Line** 28     **Fig/Table#**     **Subclause** 16.2.15.4

'AAI' is missed in the control message name.

**Suggested Remedy**

If the AMS has higher capability than the capability suggested by CAPABILITY_INDEX=0, then the AMS may transmit a higher version of the capability index or the AMS may additionally include parameters in <ins>AAI-</ins> SBC-REQ message that represents the difference with respect to the transmitted capability index.

**GroupResolution**                    **Decision of Group:**   **Agree**

If the AMS has higher capability than the capability suggested by CAPABILITY_INDEX=0, then the AMS may transmit a higher version of the capability index or the AMS may additionally include parameters in <ins>AAI-</ins> SBC-REQ message that represents the difference with respect to the transmitted capability index.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.15; MAC Network Entry and Initialization

**Editor's Notes**                    **Editor's Actions**     a) done

| **Comment by:** | Chung-Pao Chen | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #** **B10139**　　　　　　　**Document under Review:** **P802.16m/D8**　　　　　**Ballot ID:** **sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐ **Satisfied** ☐　　**Page** 419　**Line** 28　　**Fig/Table#**　　**Subclause** 16.2.15.4

The term "SBC-REQ" used in the text is incorrect. It should be " AAI-SBC-REQ".

**Suggested Remedy**

Rewrite as:
If the AMS has higher capability than the capability suggested by CAPABILITY_INDEX=0, then the AMS may transmit a higher version of the capability index or the AMS may additionally include parameters in ~~SBC-REQ~~ AAI-SBC-REQ message that represents the difference with respect to the transmitted capability index.

**GroupResolution**　　　　　　　**Decision of Group:**　**Agree**

Rewrite as:
If the AMS has higher capability than the capability suggested by CAPABILITY_INDEX=0, then the AMS may transmit a higher version of the capability index or the AMS may additionally include parameters in ~~SBC-REQ~~ AAI-SBC-REQ message that represents the difference with respect to the transmitted capability index.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.15; MAC Network Entry and Initialization

**Editor's Notes**　　　　　**Editor's Actions**　　a) done

**Comment by:** Jin Lee    **Membership Status:** Member    **Date:** ?

**Comment #** B10140    **Document under Review:** P802.16m/D8    **Ballot ID:** sb_16m

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 421    **Line** 39    **Fig/Table#**    **Subclause** 16.2.15.6

Duplicate sentence.

**Suggested Remedy**

Modify texts as following :
During the registration procedure, the AMS and the ABS shall negotiate IP versions <del>and may negotiate host configuration parameters</del>.

**GroupResolution**    **Decision of Group:** Agree

Modify texts as following :
During the registration procedure, the AMS and the ABS shall negotiate IP versions <del>~~and may negotiate host configuration parameters~~</del>.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.15; MAC Network Entry and Initialization

**Editor's Notes**    **Editor's Actions**    a) done

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Jin Lee | **Membership Status:** Member | | **Date:** ? |

**Comment #** **B10141**     **Document under Review:** **P802.16m/D8**     **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 421   **Line** 55     **Fig/Table#**     **Subclause** 16.2.15.6

Synchronize texts with those in table 687.

**Suggested Remedy**

Modify texts in page 421 line 55 as following :
, ABS <del>shall</del>  <ins>may </ins> include either the IPv4-Host-Address IE or ~

Modify texts in page 421 line 58 as following :
If the AMS does not indicate its capability of configuring host parameters, the ABS <del> shall </del> <ins> may </ins> not include any
of those host configuration ~

**GroupResolution**          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

current text is already aligned with the table 687.
For the first suggestion, 'may' in the table means that such a parameter shall be included if ABS want to support  fast IP allocation when
AMS wants to also. (i.e. it depends on the network side's decision even if AMS wants to support fast IP allocation)  so 'may' is correct.
For the second suggestion, if AMS can not support fast IP allocation then fast IP allocation can be supported even if ABS wants to
support. so 'shall' is correct.

**Group's Notes**

Clause 16.2.15; MAC Network Entry and Initialization

**Editor's Notes**          **Editor's Actions**     b) none needed

| **Comment by:** | Youngbo Cho | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #** **B10142**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 422     **Line** 19     **Fig/Table#**     **Subclause** 16.2.16

For AMS's Periodic Ranging timer in each cell with a different environment, the appropriate period of Periodic Ranging timer is different. For example, the period of Periodic Ranging timer in a cell which covers a specific shopping mall is longer than that in a cell which is a HST environment. So, it is more efficient that the serving ABS controls the period of Periodic Ranging timer based on the cell deployment.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1178 or its latest version.

**GroupResolution**                         **Decision of Group:**   **Agree**

Adopt the contribution C802.16m-10/1178

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.16; MAC Periodic Ranging

**Editor's Notes**                 **Editor's Actions**      a) done

| Comment by: | Jaesun Cha | | Membership Status: | Member | | Date: ? |
|---|---|---|---|---|---|---|

**Comment #** B10143      **Document under Review:** P802.16m/D8      **Ballot ID:** sb_16m

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 425    **Line** 22    **Fig/Table#**    **Subclause** 16.2.17.2.1

NSCF and New Initail Sleep Cycle are not included in SCH. They are included only in AAI-SLP-REQ/RSP messages.

**Suggested Remedy**

When Final Sleep Cycle is equal to or larger than 2 times the Initial Sleep Cycle, the length of Sleep Cycle exponentially doubles until the Final Sleep Cycle is reached. This Sleep Cycle operation is suitable for BE-traffic scenario. If the traffic indication message is positive for the AMS, then the length of the current Sleep Cycle shall be determined based on the value of NSCF which was included in the AAI-SLP-RSP or SCH. The Sleep Cycle could be the different length according to the Next Sleep Cycle Flag (NSCF) within the AAI-SLP-REQ/RSP message, SCH. If the NSCF is set to 0b00 then the Initial Sleep Cycle is always the same as the first Initial one. When the NSCF is set to 0b01 then current sleep cycle is doubled in previous sleep cycle.

When NSCF is set to 0b10, current sleep cycle is reset to New Initial Sleep Cycle included in the AAI-SLP-RSP message, SCH after positive traffic indication.

**GroupResolution**      **Decision of Group:** **Agree**

When Final Sleep Cycle is equal to or larger than 2 times the Initial Sleep Cycle, the length of Sleep Cycle exponentially doubles until the Final Sleep Cycle is reached. This Sleep Cycle operation is suitable for BE-traffic scenario. If the traffic indication message is positive for the AMS, then the length of the current Sleep Cycle shall be determined based on the value of NSCF which was included in the AAI-SLP-RSP or SCH. The Sleep Cycle could be the different length according to the Next Sleep Cycle Flag (NSCF) within the AAI-SLP-REQ/RSP message, SCH. If the NSCF is set to 0b00 then the Initial Sleep Cycle is always the same as the first Initial one. When the NSCF is set to 0b01 then current sleep cycle is doubled in previous sleep cycle.

When NSCF is set to 0b10, current sleep cycle is reset to New Initial Sleep Cycle included in the AAI-SLP-RSP message, SCH after positive traffic indication.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.17; MAC Sleep Mode

**Editor's Notes**      **Editor's Actions**    a) done

**2010/10/06**          **IEEE 802.16-10/0047r4**

| | | | |
|---|---|---|---|
| **Comment by:** | Giwon Park | **Membership Status:** Member | **Date:** 2010-09-09 |

**Comment #** **B10144**   **Document under Review:** **P802.16m/D8**   **Ballot ID:** **sb_16m**

**Comment**  **Type** Technical   **Part of Dis** ☐  **Satisfied** ☐   **Page** 425  **Line** 26   **Fig/Table#**   **Subclause** 16.2.17.2.1

There is no NSCF in SCH.

**Suggested Remedy**

Adopt the modified text.

If the traffic indication message is positive for the AMS, then the length of the current Sleep Cycle shall be determined based on the value of NSCF which was included in the AAI-SLP-RSP ~~or SCH~~. The Sleep Cycle could be the different length according to the Next Sleep Cycle Flag (NSCF) within the AAI-SLP-REQ/RSP message~~, SCH~~. If the NSCF is set to 0b00 then the Initial Sleep Cycle is always the same as the first Initial one. When the NSCF is set to 0b01 then current sleep cycle is doubled in previous sleep cycle.

**GroupResolution**          **Decision of Group:** **Principle**

Same resolution as B10143:
When Final Sleep Cycle is equal to or larger than 2 times the Initial Sleep Cycle, the length of Sleep Cycle exponentially doubles until the Final Sleep Cycle is reached. This Sleep Cycle operation is suitable for BE-traffic scenario. If the traffic indication message is positive for the AMS, then the length of the current Sleep Cycle shall be determined based on the value of NSCF which was included in the AAI-SLP-RSP ~~or SCH~~. The Sleep Cycle could be the different length according to the Next Sleep Cycle Flag (NSCF) within the AAI-SLP-REQ/RSP message~~, SCH~~. If the NSCF is set to 0b00 then the Initial Sleep Cycle is always the same as the first Initial one. When the NSCF is set to 0b01 then current sleep cycle is doubled in previous sleep cycle.

When NSCF is set to 0b10, current sleep cycle is reset to New Initial Sleep Cycle included in the AAI-SLP-RSP message~~, SCH~~ after positive traffic indication.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.17; MAC Sleep Mode

**Editor's Notes**          **Editor's Actions**   a) done

| | | | | |
|---|---|---|---|---|
| **Comment  by:** | Giwon  Park | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #  B10145**                **Document under Review:  P802.16m/D8**                **Ballot ID:  sb_16m**

**Comment**        **Type** Technical        **Part of Dis** ☐   **Satisfied** ☐        **Page** 425        **Line** 34        **Fig/Table#**        **Subclause** 16.2.17.2.1

There is no NSCF in SCH.

**Suggested Remedy**

Adopt the modified text.

When NSCF is set to 0b10, current sleep cycle is reset to New Initial Sleep Cycle included in the AAI-SLP-RSP message, ~~SCH~~ after positive traffic indication.

**GroupResolution**                        **Decision of Group:   Principle**

Same resolution as B10143:
When Final Sleep Cycle is equal to or larger than 2 times the Initial Sleep Cycle, the length of Sleep Cycle exponentially doubles until the Final Sleep Cycle is reached. This Sleep Cycle operation is suitable for BE-traffic scenario. If the traffic indication message is positive for the AMS, then the length of the current Sleep Cycle shall be determined based on the value of NSCF which was included in the AAI-SLP-RSP ~~or SCH~~. The Sleep Cycle could be the different length according to the Next Sleep Cycle Flag (NSCF) within the AAI-SLP-REQ/RSP message, ~~SCH~~. If the NSCF is set to 0b00 then the Initial Sleep Cycle is always the same as the first Initial one. When the NSCF is set to 0b01 then current sleep cycle is doubled in previous sleep cycle.

When NSCF is set to 0b10, current sleep cycle is reset to New Initial Sleep Cycle included in the AAI-SLP-RSP message, ~~SCH~~ after positive traffic indication.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.2.17; MAC Sleep Mode

**Editor's Notes**                **Editor's Actions**        a) done

| **Comment by:** | Mingxia Xu | **Membership Status:** | Nonmember | **Date:** 2010-09-09 |

**Comment #** **B10146**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 426     **Line** 48     **Fig/Table#**     **Subclause** 16.2.17.2.3.1

In 16m/D8, if the traffic indication message is lost or otherwise not detected by the AMS, the AMS will stay awake for the rest of the Listening Window. If no unicast data is received, AAI_TRF_IND-REQ/RSP messages shall be exchanged between AMS and ABS for the AMS to behave in the proper Sleep Cycle operation. The overhead is large as all the AMSs which did not receive traffic indication need to exchange messages with ABS.The overhead problem caused by AAI_TRF_IND-REQ/RSP messages should be solved.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1248 or its latest version.

**GroupResolution**          **Decision of Group:** **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 4, 7, 0
Repeated temp SC does not help AMS detecting its TRF-IND lost.

**Group's Notes**

Clause 16.2.17; MAC Sleep Mode

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment  by:**          Yeongmoon  Son                    **Membership Status:**    Member                    **Date:** 2010-09-09

**Comment #  B10147**                    **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**        **Type** Technical        **Part of Dis** ☐  **Satisfied** ☐        **Page** 429    **Line** 4          **Fig/Table#**          **Subclause** 16.2.17.2.4

I am not satisfied with group decision  on the comment A10121.

Sleep Cycle Setting parameter in AAI-DSx-REQ/RSP message still has TLV format. Therefore alternative table format for Sleep Cycle Setting is suggested in this contribution. In addition, SCID in AAI-DSx-REQ/RSP message is a part of the Sleep Cycle Setting, the SCID should be located in the suggested Sleep Cycle Setting table, not individual.

**Suggested Remedy**
*[Adopt the proposed text in contribution C802.16m-10/1226 or its later version.]*

**GroupResolution**                    **Decision of Group:**    Agree

*Adopt the proposed text in contribution C802.16m-10/1226*

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.17; MAC Control Messages

**Editor's Notes**            **Editor's Actions**      a) done

The tables from this comment are already covered in comment B040 and B041

| Comment by: | Giwon Park | Membership Status: | Member | Date: | 2010-09-09 |

| Comment # | B10148 | Document under Review: | P802.16m/D8 | Ballot ID: | sb_16m |

| Comment | Type Technical | Part of Dis ☐ | Satisfied ☐ | Page 431 | Line 55 | Fig/Table# | Subclause 16.2.18 |

Following text is slightly misleading .
"The AMS is not required to perform location update when it moves within its assigned paging groups."

When the AMS leaves primary paging group but stays within a secondary paging group, AMS starts Paging Group Location Update Timer (PG_LU_TIMER). If the PG_LU_TIMER is expired and AMS is still within the secondary paging group, AMS shall perform the paging group location update.

**Suggested Remedy**

Adopt the modified text.

An AMS may be assigned to one or more paging groups. If an AMS is assigned to multiple paging groups, it may be assigned multiple paging offsets within a paging cycle where each paging offset corresponds to a separate paging group. If the Paging Group Location Update Timer (PG_LU_TIMER) is not assigned to AMS, T~~the~~ AMS is not required to perform location update when it moves within its assigned paging groups. The assignment of multiple paging offsets to an AMS allows the AMS to monitor paging message from different paging groups.

**GroupResolution**　　　　　　　　　　**Decision of Group:** **Principle**

Adopt the modified text.

An AMS may be assigned to one or more paging groups. If an AMS is assigned to multiple paging groups, it may be assigned multiple paging offsets within a paging cycle where each paging offset corresponds to a separate paging group. If the Paging Group Location Update Timer (PG_LU_TIMER) has not expired, T~~the~~ AMS is not required to perform location update when it moves within its assigned paging groups. The assignment of multiple paging offsets to an AMS allows the AMS to monitor paging message from different paging groups.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.18; MAC Idle Mode

**Editor's Notes**　　　　　　　　**Editor's Actions**　　a) done

| **Comment by:** | Giwon Park | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #** **B10149**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 432   **Line** 12   **Fig/Table#**   **Subclause** 16.2.18

Clean-up of the text.
Text is not understandable and has duplication.


**Suggested Remedy**

Adopt the modified text.

The AMS determines that it is within a Paging Group if the PGID of that Paging Group is adverstised by the AMS's preferred ABS. Otherwise the AMS determines that it is not within ~~said~~ Paging Group <u>that is adverstised by the AMS's preferred ABS</u>. If the AMS determines that it is in its primary paging group, the AMS wakes up at its primary paging offset and responds to paging messages that are sent in the primary paging offset ~~and are addressed to it~~. If the AMS determines that it is not in it's primary paging group, and that one or multiple secondary paging groups are present, the AMS wakes up at the shortest paging offset and responds to paging messages that are sent in during this paging offset ~~and are addressed to it~~.


**GroupResolution**                    **Decision of Group:**   **Disagree**



**Reason for Group's Decision/Resolution**

the proposed remedy is incorrect

**Group's Notes**

Clause 16.2.18; MAC Idle Mode

**Editor's Notes**                **Editor's Actions**    b) none needed

| **Comment  by:** | Jaesun  Cha | | **Membership Status:** | Member | | **Date:** ? |

| **Comment #** **B10150** | | **Document under Review:** **P802.16m/D8** | | **Ballot ID:** **sb_16m** |

**Comment**  **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 439   **Line** 30    **Fig/Table#**    **Subclause** 16.2.18.2.2

The extension flag in the paging message does not always mean the extension of paging listening interval. It just indicates that paging message is fragmented and there is another fragmentto be transmitted.

**Suggested Remedy**

The ABS shall transmit the paging message within a frame specified in 16.2.18.2.3. Using the A-MAP IE, an idle mode AMS determines the location of paging messages in the sub-frame(s) of this predetermined frame. The paging message may be fragmented and these fragments are transmitted in different sub-frames of the predetermined frame. If the fragments of the paging message cannot be transmitted in the last DL AAI subframe of a frame, then the fragments of the paging message may be transmitted in the next frame after the predetermined paging frame. The ~~extension of paging listening interval~~fragmentation of the paging message shall be indicated by the extension flag in the paging message. Thus, in this case, an idle mode AMS remains awake and monitors the subsequent AAI subframe (i.e., next subframe of the subframe where the fragment of AAI-PAG-ADV message is sent) or frames (i.e., next frame of the frame where the fragment of AAI-PAG-ADV message is sent) for paging message. After receiving the complete paging message, the idle mode AMSs returns to paging unavailable interval if the AMS is not paged.

**GroupResolution**                    **Decision of Group:**   **Principle**

The ABS shall transmit the paging message within a frame specified in 16.2.18.2.3. Using the A-MAP IE, an idle mode AMS determines the location of paging messages in the sub-frame(s) of this predetermined frame. The paging message may be fragmented and these fragments are transmitted in different sub-frames of the predetermined frame. If the fragments of the paging message cannot be transmitted in the last DL AAI subframe of a frame, then the fragments of the paging message may be transmitted in the next frame after the predetermined paging frame. The frame-level extension of paging listening interval(due to existence of pending untransmitted fragments of the paging message) shall be indicated by the extension flag in the paging message. Thus, in this case, an idle mode AMS remains awake and monitors the subsequent AAI subframe (i.e., next subframe of the subframe where the fragment of AAI-PAG-ADV message is sent) or frames (i.e., next frame of the frame where the fragment of AAI-PAG-ADV message is sent) for paging message. After receiving the complete paging message, the idle mode AMSs returns to paging unavailable interval if the AMS is not paged.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.2.18; MAC Idle Mode

**Editor's Notes**              **Editor's Actions**    a) done

**Comment  by:**                     Jin   Lee                 **Membership Status:**    Member                          **Date:** ?

**Comment #  B10151**                      **Document under Review:**  **P802.16m/D8**                     **Ballot ID:  sb_16m**

**Comment**       **Type** Editorial        **Part of Dis** ☐  **Satisfied** ☐       **Page** 443    **Line** 38       **Fig/Table#**            **Subclause**  16.2.18.6.1

Not relevant texts exist.


**Suggested Remedy**

Delete texts in page 443 line 38;
<del> Idle Mode Support for SON/Femto is specified in 16.4.9 </del>


**GroupResolution**                          **Decision of Group:**   **Agree**

Delete texts in page 443 line 38;
<del> Idle Mode Support for SON/Femto is specified in 16.4.9 </del>


**Reason for Group's Decision/Resolution**


**Group's Notes**

Clause 16.2.18; MAC Idle Mode

**Editor's Notes**                     **Editor's Actions**     a) done

| **Comment by:** | Jin Lee | **Membership Status:** Member | **Date:** ? |

**Comment #** **B10152**                    **Document under Review:** **P802.16m/D8**                    **Ballot ID:** **sb_16m**

**Comment**        **Type** Technical       **Part of Dis** ☐ **Satisfied** ☐       **Page** 446   **Line** 62       **Fig/Table#**       **Subclause** 16.2.20

D8 describes AMS may request CLC activation during capability negotiation. But, I am not sure how much urgent to activate CLC classes before the completion of initial network entry. Additionally, the operation seems incomplete (e.g., there's no response message to complete CLC activation during NE). Add 'CLC Response' to AAI-SBC-RSP message (table 684)  or delete the texts as suggested below.

**Suggested Remedy**

Delete the texts in page 446 line 62 as following :
<del>The AMS, if needed, shall request to activate only one Type I or II CLC class during Basic Capability Negotiation. In this case, the CLC class parameters shall be set within the default CLC limits as shown in Table 795.</del>

**GroupResolution**                              **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The message has the parameter in question.

**Group's Notes**

Clause 16.2.20; MAC Co-Located Coexistence

**Editor's Notes**                    **Editor's Actions**     b) none needed

**Comment  by:**              Jaesun  Cha              **Membership Status:**  Member              **Date:** ?

**Comment #  B10153**                     **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 464   **Line** 27     **Fig/Table#**          **Subclause** 16.2.26.1

According to the coverage loss detection procedure, ABS shall grant UL burst to the AMS if active_ABS_timer is expired and AMS shall transmit a MAC PDU with data or padding bytes on the UL grant. However, a padding bytes may not be recognized because it does not follow MAC PDU format defined in 16m draft.

**Suggested Remedy**

Adopt contribution C802.16m-10/1128

**GroupResolution**                     **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

This is an implemenation issue, not suitable for protocol standardization

**Group's Notes**

Clause 16.2.26; MAC Coverage Loss Detection and Recovery

**Editor's Notes**               **Editor's Actions**     b) none needed

**Comment  by:**        Yeongmoon  Son          **Membership Status:**    Member          **Date:** 2010-09-09

**Comment #  B10154**              **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**    **Type** Technical      **Part of Dis** ☐ **Satisfied** ☐    **Page** 465    **Line** 19      **Fig/Table#**          **Subclause** 16.2.26.2

I am not satisfied with group decision  on the comment A10136.

1. In the coverage loss, once the AMS has ever detected a link loss with a serving ABS, the AMS shall perform
    the networ re-entry with CRID. But, there is hole in this procedure:
     -  The AMS detects the link loss with the serving ABS
     - But, the ABS does not detect a link loss with that AMS yet. It implies the ABS still keeps the dynamic and
        static context of the AMS.
     - the AMS performs the network re-entry with CRID
    What will happen? It will result in more network overhead and latency due to retrieval of context from network
    entity(e.g. anchor authenticator).
    The AMS already knows the value of serving ABS's HO resource retain Time through AAI_REG-RSP during
    netork entry. In that sense, if the HO resource retain time does not expire, it is better for AMS to perform
    'Uncontrolled HO (i.e. Network Re-Entry with Serving  BS ID and STID)

2. We need to clariry 'otherwise' in page 434, line  37


**Suggested Remedy**
*[Modify section 16.2.26.2 on page 465, line 19, as follows]*
*16.2.26.2 Coverage loss detection at AMS and AMS's behavior*
*The AMS can detect a coverage loss when it loses PHY synchronization or DL synchronization or UL synchronization, i.e., if the AMS*
*cannot decode a predetermined number of contiguous SFHs, called number of lost SFHs denoted as NLost-SFH, the AMS shall regard*
*it as Link Loss from the ABS <ins>and shall start Resource_Retain_Time which is identified by AAI_REG-RSP message(see Table*
*687)</ins>.*
*....*


*[Modify section 16.2.26.3 on page 465, line 37, as follows]*
*16.2.26.3 Coverage loss recovery procedure*
*Upon detection of a coverage loss, the AMS scans for a new channel. After achieving PHY synchronization and DL synchronization with*
*the discovered ABS, <ins>if the Resource_retain_time does not expire, the AMS shall perform network reentry with Serving BSID and*
*Previous STID (see Table 679). Otherwise,</ins> the AMS shall perform network reentry with CRID as indicated below.*


**GroupResolution**                              **Decision of Group:**  **Disagree**



**Reason for Group's Decision/Resolution**

no need to optimize this too much, as coverage loss is rare case hopefully. CRID works, so let us keep it as the single framework

**Group's Notes**

Clause 16.2.26; MAC Coverage Loss Detection and Recovery

**Editor's Notes**        **Editor's Actions**        b) none needed

**2010/10/06**                                                                    **IEEE 802.16-10/0047r4**

**Comment by:**        Seho  Kim                **Membership Status:**  Nonmember        **Date:** 2010-09-09

**Comment #**  B10155                **Document under Review:**  P802.16m/D8        **Ballot ID:**  sb_16m

**Comment**        **Type** Technical        **Part of Dis** ☐ **Satisfied** ☐        **Page** 466        **Line** 25        **Fig/Table#**        **Subclause** 16.2.28

There is some ambiguity the mapping between Multicast Group ID and FID.
To proper operation for multicast service, clarification is required in assignment of multicast flow.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1233 or its latest version.

**GroupResolution**                **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote: 1-4-0

Reason:
Proposal is not backward compatible.

**Group's Notes**

Clause 16.2.28; MAC Support for Multicast Service

**Editor's Notes**        **Editor's Actions**        b) none needed

| | | | |
|---|---|---|---|
| **Comment by:** | Youngbo Cho | **Membership Status:** Member | **Date:** 2010-09-09 |

**Comment #** **B10156**                **Document under Review:** **P802.16m/D8**                **Ballot ID:** **sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐   **Satisfied** ☐      **Page** 541   **Line** 53      **Fig/Table#**          **Subclause** 16.3.5.1

In D8, the concept of the boosting level of preamble is inconsistent with that of MIMO midamble and pilot/data symbol. It should be clarified to avoid confusion.

And, there is no description of A-Preamble boosting levels for multi-carrier mode. In the multi-carrier, the peak powers of A-Preamble with the present boosting levels are exceeded the dynamic range of ABS's amplifier.
So, new reference value of boosting levels are required.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1174 or its latest version.

**GroupResolution**                **Decision of Group:** **Principle**

Adopt the contribution C802.16m-10/1174r2

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**                **Editor's Actions**     a) done

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Chung-Pao  Chen | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #**  **B10157**        **Document under Review:**  **P802.16m/D8**        **Ballot ID:**  **sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☐ **Satisfied** ☐      **Page** 559    **Line** 36      **Fig/Table#**        **Subclause** 16.3.5.1.2

The texts from Line 36, Page 559 are inconsistance to the figure 516 for 512-FFT size. For the case of 512-FFT in Figure 516, the "block" should be defined as 8 consecutive sub-blocks {A,B,C,D,E,F,G,H} instead of {E, F, G, H, A, B, C, D}.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1099 or its latest version.

**GroupResolution**                    **Decision of Group:**   **Principle**

*[Note to Editor – Modify the text in section 16.3.5.1.2 Secondary advanced preamble from line 36 of page 559 as follows]*
Let "block" denote 8 consecutive sub-blocks {E, F, G, H, A, B, C, D}. For 512-FFT size, however, the positions of {E, F, G, H} shall be swapped with {A, B, C, D}, as shown in Fig. 516. The algorithm to assign the preamble blocks to multiple transmit antennas where the tone dropping is not applied and the number of antennas is power of 2 can be described as follows.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**                    **Editor's Actions**       a) done

| **Comment by:** | Lei Huang | **Membership Status:** | Member | **Date:** ? |

| **Comment #** **B10158** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**  **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 572   **Line** 53   **Fig/Table#**   **Subclause** 16.3.5.2.2.4

In D8, there are some restrictions on the structure of an assignment A-MAP. For example, if two assignment A-MAP groups using two channel coding rates are present in an A-MAP region, assignment A-MAP group using lower channel coding rate is allocated first, followed by assignment A-MAP group using higher channel coding rate. For easy of understanding, it would be better to introduce a figure to illustrate how the assignment A-MAP is organized.

**Suggested Remedy**

Adopt the suggested modification in IEEE C802.16m-10/1146.

**GroupResolution**                          **Decision of Group:**   **Principle**

Adopt the suggested modification in IEEE C802.16m-10/1146r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**                **Editor's Actions**    a) done

**Comment by:**          Hyunkyu Yu               **Membership Status:**   Member               **Date:** 2010-09-09

**Comment #** **B10159**                    **Document under Review:** **P802.16m/D8**            **Ballot ID:** **sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐ **Satisfied** ☐      **Page** 577   **Line** 59      **Fig/Table#**          **Subclause** 16.3.5.3.2.2

The calculation of DL and UL HFA resource indexes require modulo operation using $N_{HF\text{-}A\text{-}MAP}$ and $L_{HFB}$, respectively. But the current D8 does not give any rule for the following case.

 - When $N_{HF\text{-}A\text{-}MAP}$ and $L_{HFB}$ (which are signaled via S-SFH SP1) are changed and those values are applied at n-th superframe, and if the HARQ process is in progress across the superframe boundary between (n-1)-th and n-th.

We propose to calculate the HFA resource indexes using $N_{HF\text{-}A\text{-}MAP}$ and $L_{HFB}$ values in S-SFH SP1 which corresponds to S-SFH change count applied in the subframe where n (3-bit HFA in assignment A-MAP IE) is signaled.


**Suggested Remedy**
Adopt the text proposal in IEEE C802.16m-10/1169 or its latest revision.

**GroupResolution**                    **Decision of Group:** **Agree**

Adopt the text proposal in IEEE C802.16m-10/1169.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**               **Editor's Actions**    a) done

| **Comment by:** | Hyunkyu Yu | **Membership Status:** | Member | **Date:** | 2010-09-09 |
|---|---|---|---|---|---|

| **Comment #** | **B10160** | **Document under Review:** | **P802.16m/D8** | **Ballot ID:** | **sb_16m** |
|---|---|---|---|---|---|

**Comment**  **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 582   **Line** 48    **Fig/Table#**    **Subclause** 16.3.5.5.1.2

In D8, the bit size of S-SFH SPx IE, $Size_{SPx}$, is not specified. First we'd like to clarify the bit sizes of some parameters, and fix the default size of S-SFH SPx IE. Default size means the bit size without adding the size value of the S-SFH size extension field in P-SFH IE. We recommend to decide the default size as follows: In 10MHz bandwidth (1024 FFT), find the maximum reserved bit size which does not bring additional LRU overhead. For example, the current SP1 IE size in 10MHz is 85 and the required LRU size is 8 and 16 for effective code rate 1/12 and 1/24, respectively. In this case, we can have 5 reserved bits with the same amount of LRUs. Thus, the default size of SP1 IE is 90 in 10MHz. Finally, the default size of SP1 IE in 5MHz and 20MHz can be obtained by adding 6 and -6, respectively, i.e. 96 and 84.

**Suggested Remedy**

Adopt the text proposal in IEEE C802.16m-10/1170 or its latest revision.

**GroupResolution**                  **Decision of Group:**  **Principle**

Adopt the text proposal in IEEE C802.16m-10/1170r2, except remedy 3.

EDITOR: do not implement Remedy 3.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**                  **Editor's Actions**    a) done

**Comment by:** Anshuman Nigam     **Membership Status:** Member     **Date:** ?

**Comment #** **B10161**     **Document under Review:** **P802.16m/D8**     **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 585    **Line**    **Fig/Table#** 836    **Subclause** 16.3.5.5.1.2

In the current draft D8, it uses a bit 'femto indicator' in S-SFH SP1 IE is changed to "ranging configuration  type" , for the purpose of indicating different ranging configuration of femto and other types of the cells but the change has not been reflected to other portions of the table 836.

**Suggested Remedy**

Please adopt the proposed text in the latest version of the contribution C802.16m-10/1144

**GroupResolution**      **Decision of Group:** **Principle**

Adopt the proposed text in contribution C802.16m-10/1144r3

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**      **Editor's Actions**    a) done

| Comment  by: | Jinsoo  Choi | Membership Status: | Member | Date: 2010-09-09 |

| Comment #  **B10162** | Document under Review:  **P802.16m/D8** | Ballot ID:  **sb_16m** |

| Comment | Type Technical | Part of Dis ☐ | Satisfied ☐ | Page 585 | Line 47 | Fig/Table# | Subclause 16.3.5.5.1.2 |

In last meeting, the femto indicator field in S-SFH SP1 is changed as the cell specific ranging configuration indicator. Based on the changed field, it is need to modify the related syntax and note parts in S-SFH SP1 properly.

**Suggested Remedy**

In line 47 of page 585, modify the note part as following

Indicates whether <ins>the ranging configuration is for</ins> <del>the ABS is</del> a Femto ABS or not.
0b0: <del>ABS is</del> not <ins>for</ins> a Femto ABS.
0b1: <del>ABS is</del> <ins>for</ins> a femto ABS.

In line 28 of page 586, modify the syntax part as following

if(<ins>Cell specific ranging configuration Indicator</ins> <del>Femtocell</del>){


**GroupResolution**                                    **Decision of Group:**   **Principle**

Resolved by #B10161

Adopt the proposed text in contribution C80216m-10_1144r3.


**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**                    **Editor's Actions**      b) none needed

| **Comment by:** | Jinyoung  Chun | | **Membership Status:** | Member | | **Date:** | 2010-09-08 |

| **Comment #** | **B10163** | | **Document under Review:** | **P802.16m/D8** | | **Ballot ID:** | **sb_16m** |

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 589     **Line** 23     **Fig/Table#** 838     **Subclause** 16.3.5.5.1.2

[Relay] The existence of additional MIMO midamble was defined in SFH SP2. But still the procedure related to ARS is unclear.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1156 or the latest version.

**GroupResolution**                    **Decision of Group:**   **Principle**

Adopt the proposed text in C802.16m-10/1156r3

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**                    **Editor's Actions**     a) done

| | | | | | |
|---|---|---|---|---|---|
| **Comment by:** | Youngbo  Cho | | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #** **B10164**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 600    **Line** 59    **Fig/Table#**    **Subclause** 16.3.5.5.2.4.1

In D8, data burst is only allowed to be constructed within the same LRU type. However, when we consider the peak user throughput in some case such as DL:UL ratio is 6:2 or multicarrier mode, the number of data burst in a subframe should be minimized because an AMS can have maximum 16 HARQ channels.
Thus, we recommend to allow the data construction from both NLRU and SLRU.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1201 or its latest version.

**GroupResolution**          **Decision of Group:**    **Principle**

Adopt the contribution C802.16m-10/1201r3

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**          **Editor's Actions**    a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Sangheon Kim | **Membership Status:** Member | **Date:** 2010-09-09 |

**Comment #** **B10165**     **Document under Review:** **P802.16m/D8**     **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 629   **Line** 1   **Fig/Table#** 855   **Subclause** 16.3.5.5.2.4.7

Since RNG-REQ message can be fragmented, AI-SN field is needed for the clear operation in CDMA Allocation A-MAP IE. If AI-SN field is added, we don't need the limitation of non-adaptive UL HARQ retransmission in CDMA Allocation A-MAP IE.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1232 or its latest version.

**GroupResolution**     **Decision of Group:** **Principle**

Adopt the proposed text in C802.16m-10/1232r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**     **Editor's Actions**   a) done

| | | | | |
|---|---|---|---|---|
| **Comment_by:** | Hyunkyu  Yu | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #** **B10166**       **Document under Review:** **P802.16m/D8**       **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 630   **Line** 6   **Fig/Table#** 855   **Subclause** 16.3.5.5.2.4.7

(1) UL long TTI
- Due to cell coverage, UL long TTI should be supported even before capability negotiation. Thus, we propose removing "long TTI for UL" in SBC-REQ/REP messages.
(2) DL long TTI
- In case of DL, there's no critical reason to support long TTI before capability negotiation. We recommend to delete "long TTI indicator" in CDMA allocation A-MAP IE (DL allocation for AAI-RNG-RSP).

**Suggested Remedy**

Adopt the text proposal in IEEE C802.16m-10/1168 or its latest revision.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote:
In favour: 9
Opposed: 4

We do not see any harm in keeping this field in the CDMA allocation IE.

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**          **Editor's Actions**     b) none needed

| **Comment by:** | Hyunkyu Yu | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #** **B10167**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 631   **Line** 38   **Fig/Table#** 856   **Subclause** 16.3.5.5.2.4.8

In Session #68, the values of "Allocation Period" and "N_ACID" were changed (IEEE C802.16m-10/0834r1) in UL persistent allocation A-MAP IE. To keep consistency between UL and DL, I'd like to suggest modifying the values of "Allocation Period" and "N_ACID in DL persistent allocation A-MAP IE as well.

**Suggested Remedy**

[Remedy-1: change the text in page 631, line 38, Table 856, subclause 16.3.5.5.2.4.8, as]

Allocation Period  |  2  | ... 0b11: <del>8</del> <ins>6</ins> frames

[Remedy-2: change the text in page 633, line 20, Table 856, subclause 16.3.5.5.2.4.8, as]

N_ACID  |  2  |  Number of ACIDs for implicit cycling of HARQ channel identifier.
               0b00: <del>2</del> <ins>1</ins>
               0b01: <del>3</del> <ins>2</ins>
               0b10: <del>4</del> <ins>3</ins>
               0b11: <del>8</del> <ins>4</ins>

**GroupResolution**                    **Decision of Group:**   **Agree**

[Remedy-1: change the text in page 631, line 38, Table 856, subclause 16.3.5.5.2.4.8, as]

Allocation Period  |  2  | ... 0b11: <del>8</del> <ins>6</ins> frames

[Remedy-2: change the text in page 633, line 20, Table 856, subclause 16.3.5.5.2.4.8, as]

N_ACID  |  2  |  Number of ACIDs for implicit cycling of HARQ channel identifier.
               0b00: <del>2</del> <ins>1</ins>
               0b01: <del>3</del> <ins>2</ins>
               0b10: <del>4</del> <ins>3</ins>
               0b11: <del>8</del> <ins>4</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**

| **Comment by:** | Hyunkyu Yu | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #** **B10168**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 648     **Line** 41     **Fig/Table#**          **Subclause** 16.3552412

In BR-ACK A-MAP IE,

(1) HFA start offset
- This field currently has 3 bits. But, 6 bits are required to indicate the start resource index of HFA.
(2) Reserved
- BR-ACK A-MAP IE is not segmentable, and thus the reserved bits should be set to obtain total 40 bits.

**Suggested Remedy**

Adopt the text proposal in IEEE C802.16m-10/1167 or its latest revision.

**GroupResolution**          **Decision of Group:**   **Agree**

Adopt the text proposal in IEEE C802.16m-10/1167

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**          **Editor's Actions**     a) done

| Comment by: | Hyunkyu Yu | **Membership Status:** Member | **Date:** 2010-09-09 |

**Comment #** **B10169**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 650     **Line** 39     **Fig/Table#** 862     **Subclause** 16.3552413

"reserved" and "ranging opportunity index" needs to be clarified in broadcast assignment A-MAP IE.

**Suggested Remedy**

Adopt the text proposal in IEEE C802.16m-10/1166 or its latest revision.

**GroupResolution**                **Decision of Group:**   **Principle**

Adopt the text proposal in IEEE C802.16m-10/1166r1, with the following exception.

Editor: in Remedy 1, ignore (do not implement) the proposed change:

**Functional Index == 0b00**

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.5; PHY Downlink control structure

**Editor's Notes**                **Editor's Actions**     a) done

| | | | |
|---|---|---|---|
| **Comment  by:** | Youngbo  Cho | **Membership Status:**  Member | **Date:** 2010-09-09 |

**Comment #**  **B10170**                    **Document under Review:**  **P802.16m/D8**                    **Ballot ID:**  **sb_16m**

**Comment**    **Type**  Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 766    **Line** 31    **Fig/Table#**    **Subclause** 16.3.9.2.5

Current design of BW REQ channel for power level of MSG and Preamble shows the unbalanced link performance.
For better performance it would be better to make two link performance similar to each other.
Power level adjustment/control for BW REQ channel is required.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1179 or its latest version.

**GroupResolution**                    **Decision of Group:**  **Disagree**

**Reason for Group's Decision/Resolution**

Vote:
In favour: 8
Opposed: 8

Boosting the message power reduces the power of the preamble and will jeopardize the cell coverage.  Also, there is no technical justification for this proposal, only recommended text.

**Group's Notes**

Clause 16.3.8; PHY Uplink control channel

**Editor's Notes**                    **Editor's Actions**    b) none needed

**Comment by:**　　Chia-Lung  Tsai　　　　　　**Membership Status:**　　　　　**Date:** 2010-09-08

**Comment #  B10171**　　　　　　**Document under Review:  P802.16m/D8**　　　　**Ballot ID:  sb_16m**

**Comment**　　**Type** Editorial　　**Part of Dis** ☐ **Satisfied** ☐　　**Page** 782　**Line** 23　　**Fig/Table#**　　**Subclause** 16.3.8.3.1.5

In table 935, there are some typos for feedback format 2 and 3.

**Suggested Remedy**

The feedback format 2 and 3 miss the right parentheses in the table 935.
2(M=min{5,YSB})
3(M=min{10,YSB})

**GroupResolution**　　　　　　**Decision of Group:**　**Agree**

The feedback format 2 and 3 miss the right parentheses in the table 935.
2(M=min{5,YSB})
3(M=min{10,YSB})

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.8; PHY Uplink control channel

**Editor's Notes**　　　　　**Editor's Actions**　　a) done

**Comment by:**      Sangheon  Kim          **Membership Status:**   Member          **Date:** 2010-09-09

**Comment #**  **B10172**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 786    **Line** 48    **Fig/Table#**          **Subclause**  16.3.8.3.1.6

Regarding EDI of the request for switching MFM, there is no description when and from what an AMS decides to try triggering MFM change. Clarification is needed.

**Suggested Remedy**

Insert the sentences in the section 16.3.8.3.1.3, on line 48, page 786 as following.

16.3.8.3.1.6 Operation of EDI for request for switching MFM
The 57th codeword in PFBCH is defined for transition of MFM between distributed and localized permuta¬tions, where MFM 0, 1, 4, and 7 are corresponding to the distributed permutation, and MFM 2, 3, 5, and 6 are corresponding to the localized permutation. <Ins>Based on the measurements such as the channel variation, the speed of AMS, etc., AMS triggers transition to appropriate permutation by transmitting the codeword.</Ins> The transmission of the codeword means the request from an AMS for transition to other permutation from the current permutation corresponding to MFM which was assigned by Feedback allocation A-MAP IE.

**GroupResolution**                    **Decision of Group:**   **Agree**

Insert the sentences in the section 16.3.8.3.1.3, on line 48, page 786 as following.

16.3.8.3.1.6 Operation of EDI for request for switching MFM
The 57th codeword in PFBCH is defined for transition of MFM between distributed and localized permuta¬tions, where MFM 0, 1, 4, and 7 are corresponding to the distributed permutation, and MFM 2, 3, 5, and 6 are corresponding to the localized permutation. <Ins>Based on the measurements such as the channel variation, the speed of AMS, etc., AMS triggers transition to appropriate permutation by transmitting the codeword.</Ins> The transmission of the codeword means the request from an AMS for transition to other permutation from the current permutation corresponding to MFM which was assigned by Feedback allocation A-MAP IE.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.3.8; PHY Uplink control channel

**Editor's Notes**                    **Editor's Actions**     a) done

| | | | | |
|---|---|---|---|---|
| **Comment  by:** | Jinsoo  Choi | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #**  B10173                    **Document under Review:**  P802.16m/D8                    **Ballot ID:**  sb_16m

**Comment**      **Type** Technical      **Part of Dis** ☐ **Satisfied** ☐      **Page** 787   **Line** 60      **Fig/Table#**      **Subclause** 16.3.8.4

In 16.3.8.4 uplink power control section, there are several editorial errors and some description is a little confusing to be expressed. C802.16m-10/1158 provides the proposed text for clean-up.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1158 or its latest revision.

**GroupResolution**                    **Decision of Group:**   **Agree**

Adopt the proposed text in C802.16m-10/1158

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.8; PHY Uplink control channel

**Editor's Notes**                    **Editor's Actions**     a) done

| Comment by: | Jeongho Park | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #** **B10174**                    **Document under Review:** **P802.16m/D8**                    **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 789    **Line** 8    **Fig/Table#**    **Subclause** 16.3.8.4

The maximum Tx Power value of AMS can be reported to ABS during SBC-REQ stage [1]. This is for helping ABS's scheduling in order to maximize uplink resource usage after SBC-REQ procedure of the AMS. If ABS recognizes the AMS's maximum Tx Power, then ABS can calculate power headroom and assign the AMS an appropriate resource size (the number of LRUs) for the next UL transmission. However, if there is no information about it, there is almost nothing for ABS to do more for scheduling flexibility, which eventually bring waste of resource or lengthened initial network entry.

Similarly 16e has defined this function as mandatory as follows in page 1072 of IEEE802.16-2009:
"The SS shall report the maximum available power…"

For this reason, this contribution proposes to make reporting of MAX Tx Power mandatory.

**Suggested Remedy**

Adopt the proposed text in the contribution IEEEC80216m-10/1172 or its latest version.

**GroupResolution**                    **Decision of Group:**    **Agree**

Adopt the proposed text in the contribution IEEEC80216m-10/1172

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.3.8; PHY Uplink control channel

**Editor's Notes**                    **Editor's Actions**    a) done

Partial Done(JK). The remedy #2 is in 16.2, need to be implemented seperately. Done (HJK)

| **Comment  by:** | Seunghyun  Kang | **Membership Status:** | **Date:** 2010-09-09 |

**Comment #** **B10175**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☐  **Satisfied** ☐          **Page** 813          **Line** 53          **Fig/Table#**          **Subclause** 16.3.10.1.2

The data burst sizes do not always include both Burst CRC and FEC CRC.
The data burst sizes less than 4800 bits include 16 CRC bits per FEC block only.

**Suggested Remedy**

In line 53~55, modify the text as follows:
These sizes include the addition of CRC (per burst and<ins>/or</ins> per FEC block) <ins>.</ins>when applicable.

**GroupResolution**          **Decision of Group:**  **Agree**

In line 53~55, modify the text as follows:
These sizes include the addition of CRC (per burst and<ins>/or</ins> per FEC block) <ins>.</ins>when applicable.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.10; PHY Channel coding and HARQ

**Editor's Notes**          **Editor's Actions**     a) done

| | | |
|---|---|---|
| **Comment by:** Seunghyun Kang | **Membership Status:** | **Date:** 2010-09-09 |

| | | |
|---|---|---|
| **Comment #** B10176 | **Document under Review:** P802.16m/D8 | **Ballot ID:** sb_16m |

**Comment**  **Type** Technical  **Part of Dis** ☐  **Satisfied** ☐  **Page** 814  **Line** 65  **Fig/Table#**  **Subclause** 16.3.10.1.2

It is not proper way to describe the allocation size as a unit of LRU because the allocation size is defined as the LRUs multiplied by the STC rate.

**Suggested Remedy**

In page 814, line 65, remove 'LRUs' as follows:
Allocation size of 1 or 2 <del>~~LRUs~~</del>are special cases (separate columns in the …

In page 815, line 28, modify the text as follows:
For allocation size of at least 3<del>~~LRUs~~</del><ins>,_</ins>the modulation order depends only on $I_{SizeOffset}$.

**GroupResolution**              **Decision of Group:**  **Agree**

In page 814, line 65, remove 'LRUs' as follows:
Allocation size of 1 or 2 <del>~~LRUs~~</del>are special cases (separate columns in the …

In page 815, line 28, modify the text as follows:
For allocation size of at least 3<del>~~LRUs~~</del><ins>,_</ins>the modulation order depends only on $I_{SizeOffset}$.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.3.10; PHY Channel coding and HARQ

**Editor's Notes**              **Editor's Actions**     a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Seunghyun Kang | **Membership Status:** | **Date:** 2010-09-09 |

**Comment #** **B10177**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 815   **Line** 65   **Fig/Table#**   **Subclause** 16.3.10.1.2

The GRA A-MAP IE also does not use ISizeoffset to inform burst sizes as similar to the broadcast A-MAP IE and the CDMA allocation A-MAP IE. In order to avoid some confusion, it is required to have more descriptions for the GRA A-MAP IE in the subclause 16.3.10.1.2.

**Suggested Remedy**

Adopt the following text at the end of page 815:

<ins> In GRA A-MAP IE, the Resource Allocation Bitmap is used to inform both the burst size and the resource size as specified in 16.3.5.5.2.4.10. The bust size is the one among the four burst sizes predefined in the AAI-GRP-CFG. The resource size is the one among the eight resource sizes predefined in the AAI-GRP-CFG. The modulation order $N_{mod.}$ is dependent on the burst size and the resource size signaled in GRA A-MAP IE. The burst size index is found in Table 956 for the signaled burst size and $I_{MinimalSize.}$ is found in Table 957 after calculating the allocation size for the signaled resource size. $I_{SizeOffset.}$ is calculated as subtracting $I_{MinimalSize.}$ from the burst size index, and $N_{mod.}$ is found in Table 958.</ins>

**GroupResolution**                    **Decision of Group:**   **Agree**

Adopt the following text at the end of page 815:

<ins> In GRA A-MAP IE, the Resource Allocation Bitmap is used to inform both the burst size and the resource size as specified in 16.3.5.5.2.4.10. The bust size is the one among the four burst sizes predefined in the AAI-GRP-CFG. The resource size is the one among the eight resource sizes predefined in the AAI-GRP-CFG. The modulation order $N_{mod.}$ is dependent on the burst size and the resource size signaled in GRA A-MAP IE. The burst size index is found in Table 956 for the signaled burst size and $I_{MinimalSize.}$ is found in Table 957 after calculating the allocation size for the signaled resource size. $I_{SizeOffset.}$ is calculated as subtracting $I_{MinimalSize.}$ from the burst size index, and $N_{mod.}$ is found in Table 958.</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.10; PHY Channel coding and HARQ

**Editor's Notes**                    **Editor's Actions**     a) done

**Comment  by:**     Seunghyun  Kang          **Membership Status:**              **Date:** 2010-09-09

**Comment #  B10178**              **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Editorial     **Part of Dis** ☐  **Satisfied** ☐     **Page** 816  **Line** 5          **Fig/Table#**          **Subclause** 16.3.10.1.2

Omitted commas

**Suggested Remedy**

In line 5, Add commas as follows:
FEC block CRC<ins>,</ins> when applicable<ins>,</ins> is the subset of the burst size table i.e., $N_{DB}$ of idx from 1 to 39 in Table 956.

**GroupResolution**              **Decision of Group:**   **Agree**

In line 5, Add commas as follows:
FEC block CRC<ins>,</ins> when applicable<ins>,</ins> is the subset of the burst size table i.e., $N_{DB}$ of idx from 1 to 39 in Table 956.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.10; PHY Channel coding and HARQ

**Editor's Notes**              **Editor's Actions**     a) done

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Seunghyun Kang | **Membership Status:** | | **Date:** 2010-09-09 |

**Comment #** **B10179**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 818    **Line** 56    **Fig/Table#**    **Subclause** 16.3.10.1.5.1

For the consistent description of bit address in the subclause 16.3.10.1.5.1, it would be better to have the address starting from 0 rather than 1.


**Suggested Remedy**

In line 56, modify the text as follows:
natural order (switch 1 in Figure 579) with incremental address <del>i=1,2,…,N</del><ins>i=0,1,…,N-1</ins>.

In line 63, modify the text as follows:
sequence (switch 2 in Figure 579) with incremental address <del>i=1,2,…,N</del><ins>i=0,1,…,N-1</ins>.

**GroupResolution**                    **Decision of Group:** **Agree**

In line 56, modify the text as follows:
natural order (switch 1 in Figure 579) with incremental address <del>i=1,2,…,N</del><ins>i=0,1,…,N-1</ins>.

In line 63, modify the text as follows:
sequence (switch 2 in Figure 579) with incremental address <del>i=1,2,…,N</del><ins>i=0,1,…,N-1</ins>.


**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.10; PHY Channel coding and HARQ

**Editor's Notes**          **Editor's Actions**    a) done

| **Comment by:** | Klutto Milleth   Jeniston Deviraj | **Membership Status:** | Member | **Date:** ? |
|---|---|---|---|---|

| **Comment #** B10180 | **Document under Review:** P802.16m/D8 | **Ballot ID:** sb_16m |
|---|---|---|

**Comment**   **Type** Technical   **Part of Dis** ☐   **Satisfied** ☐   **Page** 826   **Line** 16   **Fig/Table#**   **Subclause** 16.3.10.3.1

The subcarrier randomization on the pilot and data subcarriers of CDR allocation will destroy the CDR structure. Therefore, the subcarrier randomization shall not be applied for both pilot and data subcarriers in CDR allocations.

**Suggested Remedy**

In section 16.3.10.3.1, page 826, line 16-20, please delete the text "pilot subcarriers of" so that the modified text appears as given below:

The subcarrier randomization sequence shall not be applied to the subcarriers belonging to the PA- and SA-Preamble, MIMO midamble, uplink sounding, Initial/HO ranging region, Periodic Ranging and <\del>pilot subcarriers of <\del>CDR allocations.

**GroupResolution**                              **Decision of Group:**   **Principle**

In section 16.3.10.3.1, page 826, line 16-20, please delete the text "pilot subcarriers of" so that the modified text appears as given below:

The subcarrier randomization sequence shall not be applied to the subcarriers belonging to the PA- and SA-Preamble, MIMO midamble, uplink sounding, Initial/HO ranging region, Periodic Ranging and <ins> data and </ins> pilot subcarriers of CDR allocations.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.3.10; PHY Channel coding and HARQ

**Editor's Notes**                    **Editor's Actions**      a) done

| **Comment by:** | Klutto Milleth  Jeniston Deviraj | **Membership Status:** | Member | **Date:** ? |

| **Comment #** **B10181** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 827    **Line** 50    **Fig/Table#**    **Subclause** 16.3.10.3.3

Mapping of pilot modulation sequence to pilot subcarriers of CoFIP is not very clear.

**Suggested Remedy**

Please adopt the text changes suggested in C802.16m-10/1190.doc or its latest revision

**GroupResolution**                    **Decision of Group:**   **Principle**

Please adopt the text changes suggested in C802.16m-10/1190r1.

Editor: note there's an r2.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.3.10; PHY Channel coding and HARQ

**Editor's Notes**                    **Editor's Actions**    a) done

| **Comment by:** | Anshuman Nigam | **Membership Status:** Member | **Date:** ? |

| **Comment #** **B10182** | **Document under Review:** **P802.16m/D8** | **Ballot ID:** **sb_16m** |

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 839    **Line** 43    **Fig/Table#**    **Subclause** 16.4.4

In the current draft D8, it is mentioned that the CSGID will be of variable length and its maximum length can be 24 bits. However this is mentioned in the message tables. From readability perspective it will be good to include this information in the text as well.

**Suggested Remedy**

Please adopt the proposed text in the latest version of the contribution C802.16m-10/1143

**GroupResolution**                    **Decision of Group:**    **Agree**

Please adopt the proposed text in the contribution C802.16m-10/1143

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.4; Other Femto

**Editor's Notes**          **Editor's Actions**      a) done

| Comment by: | Anshuman Nigam | Membership Status: | Member | Date: ? |

**Comment #** **B10183**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**  **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 844  **Line** 27    **Fig/Table#**    **Subclause** 16.4.7.5

In the current D8 draft, the reselection schemes works as follows:-
-       If the AMS does not include any CSGID in RNG-REQ, then the process is as regular.
-       If the AMS includes partial CSGIDs in RNG-REQ, then the ABS should check
        If there is some CSGID matching the ABS's CSGID(S), accept the request.
        If none of the CSGIDs matches the ABS's CSGID(s), then the ABS reject the request and send its own CSGID, while the
re-direction info may or may not be mandated.
        The AMS receives the CSGID and check if it is in its whitelist. If yes, then AMS follow a normal access (i.e., send RNG-REQ not
including CSGIDs); if not, the AMS should not try to access any more.
However in the scenario when the AMS does not includes all of its CSGIDs then ABS has to send its CSGID. This can be optimized if
the AMS sends a one bit indicator which indicates whether the AMS has included all the CSGIDs or not. If it has included all the
CSGIDs then the ABS should not send its CSGID.

Furthermore, the re-direction should not be mandated. What if the ABS does not have redirection information?


**Suggested Remedy**

Please adopt the proposed text in the latest version of the contribution C802.16m-10/1142


**GroupResolution**                          **Decision of Group:**   **Disagree**



**Reason for Group's Decision/Resolution**

Vote:
In favour: 0
Opposed: 4

The overhead is excessive for practical scenarios.

**Group's Notes**
Clause 16.4; Other Femto

**Editor's Notes**          **Editor's Actions**      b) none needed

**Comment by:**            Anshuman  Nigam            **Membership Status:**   Member                **Date:** ?

**Comment #  B10184**                    **Document under Review:  P802.16m/D8**                **Ballot ID:  sb_16m**

**Comment**        **Type** Editorial        **Part of Dis** ☐  **Satisfied** ☐        **Page** 845    **Line** 24        **Fig/Table#**        **Subclause** 16.4.8.1.1

belonging -> belongs

**Suggested Remedy**

The accessible Femto ABS list may contain CSG-closed Femto ABSs serving CSGs that the AMS belong<ins>s</ins><del>ing</del> to, and CSG-open Femto ABSs.

**GroupResolution**                **Decision of Group:**   **Agree**

The accessible Femto ABS list may contain CSG-closed Femto ABSs serving CSGs that the AMS belong<ins>s</ins><del>ing</del> to, and CSG-open Femto ABSs.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.4; Other Femto

**Editor's Notes**                **Editor's Actions**     a) done

**Comment by:**          Anshuman  Nigam          **Membership Status:**   Member          **Date:** ?

**Comment #**  **B10185**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 846   **Line** 21     **Fig/Table#**     **Subclause** 16.4.8.1.2

In the current draft D8, the scanning report message does not include the indicator of whether the detected CSG-closed femtocell is in the AMS's local whitelist. Since AMS should have a whitelist to check whether the detected femtocell is in the whitelist or not, if AMS reports such, it gives the ABS some free information. The ABS needs to know whether the AMS is accessible to the reported cell for different follow-up operations:
-          If it is accessible, the ABS may use the cell as handover candidate
-          If it is inaccessible, the AMS may use the cell as the one to coordinate interference mitigation
If the AMS would not report whether the CSG-clsoed femto is in its whitelist or not, the ABS had to check about it via the backhaul every time when the AMS reports CSG-closed femtocell, because the ABS may not have the AMS's whitelist or subscription information, and the backhaul check adds on the latency for the ABS to perform the handover or interference mitigation, which are very importantly to be timely treated.

**Suggested Remedy**

Please adopt the proposed text in the latest version of the contribution C802.16m-10/1141

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

In favour: 0
Opposed: 2

The issue of latency for HO to Femto is not critical enough to justify the extra overhead.

**Group's Notes**
Clause 16.4; Other Femto

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment by:**          Jin  Lee                    **Membership Status:**   Member                    **Date:** ?

**Comment #  B10186**                **Document under Review:  P802.16m/D8**                **Ballot ID:  sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 848   **Line** 49     **Fig/Table#**          **Subclause** 16.4.11

Trigger condition is missing. Define the trigger condition or delete texts as indicated in suggested remedy.

**Suggested Remedy**

Modify texts in page 848 line 45 as following :
~ to that Femto ABS by sending an AAI-RNG-REQ with the Ranging Purpose Indication code 0b0111 <del>based on configured trigger conditions </del>

Modify texts in page 848 line 48 as following :
Upon inaccessible Femto ABS receiving an AAI-RNG-REQ with the Ranging Purpose Indication code 0b0111 from AMS, <del>the Femto ABS may perform interference mitigation based on the measurement and legitimate of the AMS, T </del> <ins> t </ins> he Femto ABS may either ~

**GroupResolution**                    **Decision of Group:**   **Principle**

Resolved by comment #B176

Adopt the contribution C80216m-10/1149r1.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.4; Other Femto

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment  by:**          Anshuman   Nigam          **Membership Status:**   Member                    **Date:**  ?

**Comment #**  **B10187**                    **Document under Review:**  **P802.16m/D8**                    **Ballot ID:**  **sb_16m**

**Comment**          **Type** Editorial          **Part of Dis** ☐  **Satisfied** ☐          **Page** 850     **Line** 7                    **Fig/Table#** 968          **Subclause** 16.4.11

In row 1, colomn 3, the reference to table 969 is incorrectly mentioned as table y2.

**Suggested Remedy**

Change y2 to 969 in row1, colomn 3 of table 968.

**GroupResolution**                    **Decision of Group:**   **Agree**

Change y2 to 969 in row1, colomn 3 of table 968.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.4; Other Femto

**Editor's Notes**                    **Editor's Actions**      a) done

**Comment by:**     Anshuman  Nigam          **Membership Status:**  Member          **Date:** ?

**Comment #** **B10188**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Editorial     **Part of Dis** ☐ **Satisfied** ☐     **Page** 851   **Line** 15     **Fig/Table#**     **Subclause** 16.4.13

equip -> equipped

**Suggested Remedy**

When supporting the Femto ABS reliability improvement functions, the Femto ABS is assumed to equip<ins>ped</ins> with backup power buffer

**GroupResolution**                **Decision of Group:**   **Agree**

When supporting the Femto ABS reliability improvement functions, the Femto ABS is assumed to equip<ins>ped</ins> with backup power buffer

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.4; Other Femto

**Editor's Notes**          **Editor's Actions**     a) done

**Comment  by:**    Chia-Lung  Tsai         **Membership Status:**           **Date:** 2010-09-08

**Comment #  B10189**          **Document under Review:  P802.16m/D8**          **Ballot ID:   sb_16m**

**Comment**    **Type** Editorial      **Part of Dis** ☐  **Satisfied** ☐      **Page** 851    **Line** 26      **Fig/Table#**      **Subclause** 16.6.3.3.1

There are some typos in the text.


**Suggested Remedy**

If AAI_Relay_zone_AMS_allocation_indicator field signaled in the AAI_System Configuration Descriptor message and AAI_ARS-CONFIG-CMD message is equal to 1, which indicates that ABS may allocate AMS transmissions in the AAI Relay zone, then the values of ~~UCASSB,0, UCASi, UCASMB,0~~ $UCAS_{SB,0}$, $UCAS_i$, $UCAS_{MB,0}$ used in AAI UL Access zones shall be used for cell-specific resource mapping in the AAI UL Relay zones of ABS and ARS frames.
If AAI_Relay_zone_AMS_allocation_indicator field signaled in the AAI_System Configuration Descriptor message and AAI_ARS-CONFIG-CMD message is equal to 0, which indicates that ABS does not allocate AMS transmissions in the AAI Relay zone, then the values of ~~UCASSB,0, UCASi, UCASMB,0~~ ~~$UCAS_{SB,0}$, $UCAS_i$, $UCAS_{MB,0}$~~ used for cell-specific resource mapping in AAI UL Relay zones of ABS and ARS frames shall be set to the values ~~R_UCAS_{SB,0}, R_UCAS_i, R_UCAS_{MB,0}~~ $R\_UCAS_{SB,0}$, $R\_UCAS_i$, $R\_UCAS_{MB,0}$ correspondingly. The values of cell specific AAI Relay zone param¬eters ~~R_UCAS_{SB,0}, R_UCAS_i, R_UCAS_{MB,0}~~ $R\_UCAS_{SB,0}$, $R\_UCAS_i$, $R\_UCAS_{MB,0}$ are explicitly signaled in the AAI_ARS-CONFIG-CMD mes¬sage.


**GroupResolution**                **Decision of Group:   Agree**

If AAI_Relay_zone_AMS_allocation_indicator field signaled in the AAI_System Configuration Descriptor message and AAI_ARS-CONFIG-CMD message is equal to 1, which indicates that ABS may allocate AMS transmissions in the AAI Relay zone, then the values of ~~UCASSB,0, UCASi, UCASMB,0~~ $UCAS_{SB,0}$, $UCAS_i$, $UCAS_{MB,0}$ used in AAI UL Access zones shall be used for cell-specific resource mapping in the AAI UL Relay zones of ABS and ARS frames.
If AAI_Relay_zone_AMS_allocation_indicator field signaled in the AAI_System Configuration Descriptor message and AAI_ARS-CONFIG-CMD message is equal to 0, which indicates that ABS does not allocate AMS transmissions in the AAI Relay zone, then the values of ~~UCASSB,0, UCASi, UCASMB,0~~ ~~$UCAS_{SB,0}$, $UCAS_i$, $UCAS_{MB,0}$~~ used for cell-specific resource mapping in AAI UL Relay zones of ABS and ARS frames shall be set to the values ~~R_UCAS_{SB,0}, R_UCAS_i, R_UCAS_{MB,0}~~ $R\_UCAS_{SB,0}$, $R\_UCAS_i$, $R\_UCAS_{MB,0}$ correspondingly. The values of cell specific AAI Relay zone param¬eters ~~R_UCAS_{SB,0}, R_UCAS_i, R_UCAS_{MB,0}~~ $R\_UCAS_{SB,0}$, $R\_UCAS_i$, $R\_UCAS_{MB,0}$ are explicitly signaled in the AAI_ARS-CONFIG-CMD mes¬sage.


**Reason for Group's Decision/Resolution**

**Group's Notes**

**Editor's Notes**     **Editor's Actions**     a) done

**2010/10/06**                                          **IEEE 802.16-10/0047r4**

**Comment by:**          Ping-Heng Kuo          **Membership Status:**   Member          **Date:** 2010-09-06

**Comment #** **B10190**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 855     **Line** 54     **Fig/Table#**     **Subclause** 16.5.1.3.1

The definition of concatenating precoder for DL multi-BS joint MIMO processing should be clarified.

**Suggested Remedy**

Adopt the proposed text in contribution C802.16m-10/1098 or its latest revision.

**GroupResolution**          **Decision of Group:**   **Agree**

Adopt the proposed text in contribution C802.16m-10/1098.

Editor: ignore the later version.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**     **Editor's Actions**     a) done

**Comment by:**        Alexey  Davydov            **Membership Status:**    Member                **Date:**  ?

**Comment #  B10191**                    **Document under Review:**  P802.16m/D8                **Ballot ID:**  **sb_16m**

**Comment**        **Type** Technical        **Part of Dis** ☐  **Satisfied** ☐        **Page** 855    **Line** 55        **Fig/Table#**        **Subclause**  16.5.1.3.1

Some clarification on the usage of quantized infromation in PMI based joint Multi-BS MIMO processing is needed.

**Suggested Remedy**

...where b corresponds to a 3-bit CPMI value which is defined in Table 973. ABS utilizes the phase information to modify the feedbacked precoder as exp(1i*2*pi*b)*v, where b is the feedbacked phase and v is the  concatenating PMI.

**GroupResolution**                    **Decision of Group:**   **Principle**

Resolved by comment #B10190:

Adopt the proposed text in contribution C80216m-10/1098.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**            **Editor's Actions**    b) none needed

**Comment  by:**       Whai-En  Chen                    **Membership Status:**    Member                **Date:** 2010-09-09

**Comment #**  **B10192**                    **Document under Review:**  **P802.16m/D8**              **Ballot ID:**  **sb_16m**

**Comment**       **Type** Technical       **Part of Dis** ☒ **Satisfied** ☐       **Page** 856    **Line** 46       **Fig/Table#**       **Subclause** 16.5.1.3.1

In order to improve the benefit of the multi-BS MIMO sounding calibration scheme in 16.5.1.3.1.  In addition to TX/RX RF phase calibration, we propose a calibration scheme for over the air (OTA) DL/UL channel phase mismatch scheme.

**Suggested Remedy**

Adopt the contribution C802.16m-10/1136 or its latest revision.

**GroupResolution**                    **Decision of Group:**   **Principle**

Resolved by comment B187:

Adopt the text proposal in C802.16m-10/1136r4

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.5; Other Mutli-BS MIMO

**Editor's Notes**                    **Editor's Actions**       b) none needed

**Comment  by:**        Alexey   Khoryaev           **Membership Status:**   Member                **Date:** ?

**Comment #  B10193**              **Document under Review:  P802.16m/D8**                **Ballot ID:  sb_16m**

**Comment**   **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 860   **Line** 30    **Fig/Table#**    **Subclause** 16.6.1

The contribution C802.16m-10/1188 provides clean up of several sub-sections in Relay support section

**Suggested Remedy**

Adopt the text proposed in the latest revision of  C802.16m-10/1188

**GroupResolution**                **Decision of Group:**   **Principle**

Adopt the text proposed in C802.16m-10/1188r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.6; Other Relay

**Editor's Notes**              **Editor's Actions**     a) done

10/1188r1 done Hyunkyu (except remedy#2,#7: needs cross-reference (subcluase#) to 16.2, remedy#4,#5: needs cross-reference (table#) to 16.2, remedy#6: all figures are drawn using visio, remedy#9: Annex R.2, remedy#10,#13: needs cross-reference (subcluase#) to 16.3, remedy#11,#12: needs cross-reference (table#) to 16.3)

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Youngbin Chang | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #** **B10194**　　　　　　　**Document under Review:** **P802.16m/D8**　　　　**Ballot ID:** **sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 877　**Line** 44　　**Fig/Table#**　　**Subclause** 16.6.3.1

ARSTTG and ARSRTG are capability parameters when relay enter the network. ARS shall inform this capability to ABS, then ABS can calculate exact time gap (R-TTG/R-RTG) in TDD/FDD case

**Suggested Remedy**

Adopt the proposed text in C802.16m-09/1239 or its latest version.

**GroupResolution**　　　　　　　　　　**Decision of Group:**　**Principle**

Adopt the proposed text in C802.16m-09/1239r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.6; Other Relay

**Editor's Notes**　　　　　　**Editor's Actions**　　a) done

Some aspects appear to have been done by HJK.

| **Comment  by:** | Youngbin   Chang | **Membership Status:** | Member | **Date:** 2010-09-09 |
|---|---|---|---|---|

| **Comment #  B10195** | **Document under Review:**  P802.16m/D8 | **Ballot ID:  sb_16m** |
|---|---|---|

**Comment**       **Type** Technical       **Part of Dis** ☐  **Satisfied** ☐       **Page** 878    **Line** 48       **Fig/Table#**       **Subclause**  16.6.3.2

Current ARS frame is only for TTR relay. In STR relay, ARS frame is same as ABS frame. Therefore, it need to clarify the frame structure section for TTR.

**Suggested Remedy**

16.6.3.2 Frame structure
In STR mode, ARS frame is identical of ABS frame (see 16.3.3). The following subsections and text are only for TTR mode frame structure of both FDD and TDD.

**GroupResolution**                    **Decision of Group:**   **Principle**

Resolved by comment #B10193:

Adopt the text proposed in C80216m-10_1188r1

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.6; Other Relay

**Editor's Notes**              **Editor's Actions**      b) none needed

| **Comment by:** | Alexey Khoryaev | **Membership Status:** | Member | **Date:** ? |
|---|---|---|---|---|

**Comment #** **B10196**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐    **Satisfied** ☐    **Page** 878    **Line** 49    **Fig/Table#**    **Subclause** 16.6.3.2.1

The contribution C802.16m-10/1189 proposes to update the ARS frame structure for TTR mode by removing the option for ARS AAI UL Access zone timing advance. When timing advance is applied the uplink sub-frames of AAI Access zone of ABS frame and ARS frame are unsynchronized in time. That leads to appearance of asynchronous interference since AMS attached to ARS shall start it transmission in advance comparing to AMSs attached to ABS.

**Suggested Remedy**

Adopt the text proposed in the latest revision of  C802.16m-10/1189

**GroupResolution**                    **Decision of Group:**    **Disagree**

**Reason for Group's Decision/Resolution**

Vote:

In favour: 6
Opposed: 6

There is no gain by the deletion of asynchronous frame.

**Group's Notes**
Clause 16.6; Other Relay

**Editor's Notes**          **Editor's Actions**    b) none needed

| | | |
|---|---|---|
| **Comment by:** Chia-Lung Tsai | **Membership Status:** | **Date:** 2010-09-08 |
| **Comment #** B10197 | **Document under Review:** P802.16m/D8 | **Ballot ID:** sb_16m |

**Comment**  **Type** Technical  **Part of Dis** ☐  **Satisfied** ☐  **Page** 879  **Line** 39  **Fig/Table#**  **Subclause** 16.6.3.2.1

Some concerns have been identified in the section 16.6.3.2.1. If the ranging channel is transmitted in the first UL AAI subframe, the UL frame structure of relay in the FDD system in D8 may be malfunctioned, as R-RTI is not zero.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1104 or its latest version

**GroupResolution**                          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The ranging channel can be not only in UL Access zone but also in UL Relay zone. Also it's better to keep the same frame structure between ABS and ARS in UL access zone for the AMS's operation.

**Group's Notes**
Clause 16.6; Other Relay

**Editor's Notes**                    **Editor's Actions**    b) none needed

**Comment by:**        Jinyoung  Chun        **Membership Status:**   Member        **Date:** 2010-09-08

**Comment #**  **B10198**                **Document under Review:** **P802.16m/D8**                **Ballot ID:**  **sb_16m**

**Comment**        **Type** Technical        **Part of Dis** ☐  **Satisfied** ☐        **Page** 879   **Line** 53        **Fig/Table#**        **Subclause**  16.6.3.2.1

[Relay] There are some editorial error in 16.6.3.2.1 FDD frame structure.

**Suggested Remedy**

Adopt the proposed texts in C802.16m-10/1157 or the latest version.

**GroupResolution**                **Decision of Group:**   **Agree**

Adopt the proposed texts in C802.16m-10/1157

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.6; Other Relay

**Editor's Notes**                **Editor's Actions**        a) done

| | | |
|---|---|---|
| **Comment by:** Chia-Lung Tsai | **Membership Status:** | **Date:** 2010-09-08 |

**Comment #** **B10199**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐ **Satisfied** ☐    **Page** 880    **Line** 56    **Fig/Table#**    **Subclause** 16.6.3.2.2

Some concerns have been identified in the section 16.6.3.2.2. The ARS shall transmit MIMO midamble signal in the AAI DL Access zone. The transmission shall be time aligned with the transmission of the MIMO midamble from ABS to AMS. In the note of table 976, it was set R-TTI to 0 to prevent malfunction, as AAI DL access zone is set to 2. The duration of the R-TTI is calculated by RTD and ARSTTG in the equation (341). If the R-TTI was set to 0 by constraint and RTD/2<ARSTTG, the ARSTTG may be not satisfied.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/1103 or its latest version

**GroupResolution**          **Decision of Group:** **Disagree**

**Reason for Group's Decision/Resolution**

The ranging channel can be not only in UL Access zone but also in UL Relay zone. Also it's better to keep the same frame structure between ABS and ARS in UL access zone for the AMS's operation.

**Group's Notes**

Clause 16.6; Other Relay

**Editor's Notes**          **Editor's Actions**    b) none needed

**Comment by:**    Chia-Lung  Tsai         **Membership Status:**              **Date:** 2010-09-08

**Comment #**  **B10200**              **Document under Review:** **P802.16m/D8**            **Ballot ID:**  **sb_16m**

**Comment**     **Type** Editorial      **Part of Dis** ☐  **Satisfied** ☐      **Page** 881    **Line** 64      **Fig/Table#**         **Subclause**  16.6.3.2.3

The table number shall be updated.

**Suggested Remedy**

ABS or ARS informs sets of the frame configurations and indexing for AMS in S-SFH SP1 IE in ~~Table 807, 808 and 809~~ Table 803, 804 and 805. Some sets of the frame configuration and indexing are not used when ABS supports ARS.

**GroupResolution**              **Decision of Group:**  **Agree**

ABS or ARS informs sets of the frame configurations and indexing for AMS in S-SFH SP1 IE in ~~Table 807, 808 and 809~~ Table 803, 804 and 805. Some sets of the frame configuration and indexing are not used when ABS supports ARS.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.6; Other Relay

**Editor's Notes**              **Editor's Actions**     a) done

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Chia-Lung Tsai | **Membership Status:** | | **Date:** 2010-09-08 |

**Comment #**  **B10201**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 882   **Line** 4          **Fig/Table#**          **Subclause** 16.6.3.2.3

Some errors have been identified in the section 16.6.3.2.

**Suggested Remedy**

Adopt the proposed text in C802.16m-10/ 1102 or its latest version

**GroupResolution**               **Decision of Group:**   **Agree**

Adopt the proposed text in C802.16m-10/ 1102

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.6; Other Relay

**Editor's Notes**          **Editor's Actions**     a) done

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Jinyoung Chun | **Membership Status:** Member | | **Date:** 2010-09-08 |

**Comment #** B10202          **Document under Review:** P802.16m/D8          **Ballot ID:** sb_16m

**Comment**    **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 882   **Line** 57     **Fig/Table#**          **Subclause** 16.6.3.3.1

[Relay] If cell-specific mapping is applied in Relay zone, an additional MIMO midamble shall be existed in DL relay zone because the channel condition of relay zone is very different with Access zone.

**Suggested Remedy**

*[Add the text in line 57 of the page 882 as below:]*

When ABS has at least one attached subordinate ARS, the ABS may transmit an additional MIMO midamble
in the AAI DL Relay zone of the first frame of each superframe.<ins> If AAI_Relay_zone_AMS_allocation_indicator field is equal to 0, the additional MIMO midamble shall be existed.</ins>

**GroupResolution**                    **Decision of Group:** **Principle**

*[Add the text in line 57 of the page 882 as below:]*

When ABS has at least one attached subordinate ARS, the ABS may transmit an additional MIMO midamble
in the AAI DL Relay zone of the first frame of each superframe <ins>If AAI_Relay_zone_AMS_allocation_indicator field in AAI-SCD message set to 0, the additional MIMO midamble shall be  transmitted.</ins>

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.6; Other Relay

**Editor's Notes**                    **Editor's Actions**     a) done

| **Comment by:** | Jinyoung Chun | | **Membership Status:** | Member | | **Date:** 2010-09-08 |

**Comment #** **B10203**                    **Document under Review:** **P802.16m/D8**                    **Ballot ID:** **sb_16m**

**Comment**     **Type** Editorial          **Part of Dis** ☐  **Satisfied** ☐          **Page** 883     **Line** 17          **Fig/Table#**          **Subclause** 16.6.3.3.2

Insert a space between 'resource' and 'mapping' in the title of '16.6.3.3.2 Cell-specific resourcemapping'.

**Suggested Remedy**

**GroupResolution**                    **Decision of Group:**   **Agree**

Insert a space between 'resource' and 'mapping' in the titile of '16.6.3.3.2 Cell-specific resourcemapping'.

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.6; Other Relay

**Editor's Notes**                    **Editor's Actions**     a) done

| **Comment  by:** | Jinyoung  Chun | **Membership Status:** Member | **Date:** 2010-09-08 |
|---|---|---|---|

**Comment #**  **B10204**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**     **Type** Editorial     **Part of Dis** ☐ **Satisfied** ☐     **Page** 884     **Line** 3     **Fig/Table#**     **Subclause** 16.6.3.5.1

Insert a space between 'resource' and 'mapping' in the titile of '16.6.3.5.1 Cell-specific resourcemapping'

**Suggested Remedy**

**GroupResolution**          **Decision of Group:**  **Agree**

Insert a space between 'resource' and 'mapping' in the titile of '16.6.3.5.1 Cell-specific resourcemapping'

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.6; Other Relay

**Editor's Notes**          **Editor's Actions**     a) done

| **Comment by:** | Michael Gundlach | **Membership Status:** Member | **Date:** 2010-09-08 |

**Comment #** **B10205**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☒  **Satisfied** ☐     **Page** 886   **Line** 17     **Fig/Table#**     **Subclause** 16,7,2

The word "Femto" in this clause makes no sense

**Suggested Remedy**

Replace twice the words "ABS/Femto" by "ABS". Hence the paragraph will read:

Self configuration is the process executed by ABS at initialization, as well as during normal operation, whereby the ABS sets and modifies certain configurable parameters.

**GroupResolution**          **Decision of Group:**   **Principle**

Sec 16.7.2 Page 886, Line 17

Self configuration is the process executed by ABS<del>/Femto</del> at initialization, as well as during normal operation, whereby the ABS<del>/Femto</del> sets and modifies certain configurable parameters.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.7; Other SON

**Editor's Notes**          **Editor's Actions**     a) done

| Comment by: | Michael Gundlach | Membership Status: | Member | Date: | 2010-09-08 |

**Comment #** B10206     **Document under Review:** P802.16m/D8     **Ballot ID:** sb_16m

**Comment**     **Type** Editorial     **Part of Dis** ☐ **Satisfied** ☐     **Page** 887     **Line** 4     **Fig/Table#**     **Subclause** 16,7,3

Period is missing at the end of the sentence.

**Suggested Remedy**

Add the period.

**GroupResolution**     **Decision of Group:** Agree

Add the period.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.7; Other SON

**Editor's Notes**     **Editor's Actions**     a) done

**Comment  by:**           Michael   Gundlach          **Membership Status:**   Member          **Date:**  2010-09-08

**Comment #**  **B10207**                    **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**          **Type** Editorial          **Part of Dis** ☐  **Satisfied** ☐          **Page**  889          **Line**  39          **Fig/Table#**          **Subclause**  16,8,2,1

There is an apostrophe too much (it should be plural-s instead of genitive)

**Suggested Remedy**

Replace "neighboring ABS's" by "neighboring ABSs".

**GroupResolution**                    **Decision of Group:**   **Agree**

Replace "neighboring ABS's" by "neighboring ABSs".

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.8; Other LBS

**Editor's Notes**                    **Editor's Actions**      a) done

| **Comment by:** | Michael  Gundlach | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #** **B10208**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Editorial      **Part of Dis** ☐ **Satisfied** ☐      **Page** 890   **Line** 8          **Fig/Table#**          **Subclause** 16,8,2,3

It should be made clear what two functions the first sentence is refering to.
I propose to make the second and third paragraph to  bullets.

**Suggested Remedy**

Add bullets to the second and third paragraph.

**GroupResolution**                    **Decision of Group:**   **Agree**

Add bullets to the second and third paragraph.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.8; Other LBS

**Editor's Notes**          **Editor's Actions**      a) done

**Comment  by:**          Michael  Gundlach          **Membership Status:**   Member          **Date:** 2010-09-08

**Comment #**  **B10209**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**       **Type** Editorial       **Part of Dis** ☐  **Satisfied** ☐       **Page** 893   **Line** 15       **Fig/Table#**       **Subclause**  16,8,3

use genitive (as in the other phrases)

**Suggested Remedy**

replace "ABS ability" by "ABS's ability".

**GroupResolution**                    **Decision of Group:**   **Agree**

replace "ABS ability" by "ABS's ability".

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.8; Other LBS

**Editor's Notes**                    **Editor's Actions**     a) done

| **Comment by:** | Lei Zhou | **Membership Status:** | Member | **Date:** 2010-09-07 |

| **Comment #** B10210 | **Document under Review:** P802.16m/D8 | **Ballot ID:** sb_16m |

**Comment**   **Type** Technical   **Part of Dis** ☐ **Satisfied** ☐   **Page** 893   **Line** 20   **Fig/Table#**   **Subclause** 16.8.3

This comment proposes to remove the function of multiple carriers for LBS because actually, multiple carriers for LBS can't enhance performance of LBS. At the same time, relative delay can't be used for handover. So the contribution proposes to remove parameter relative delay for multiple carriers in AAI-SCN-REP and description sentence in E-LBS zone.

**Suggested Remedy**

Adopt the proposed AWD text changes in contribution C802.16m-10/1107or its latest revision.

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Vote:
in favour: 2
Opposed: 2

Multicarrier measurements are beneficial in terms of improving accuracy of positioning performance.

**Group's Notes**

Clause 16.8; Other LBS

**Editor's Notes**            **Editor's Actions**     b) none needed

**Comment  by:**          Alexey   Khoryaev          **Membership Status:**   Member          **Date:** ?

**Comment #  B10211**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 893   **Line** 37          **Fig/Table#**          **Subclause** 16.8.3.

The position of  D-LBS zone location beacon transmission for frame structures supporting WirelessMAN-OFDMA is not specified. The contribution C802.16m-10/1185 provides clarification for frame configuration supporting WirelessMAN-OFDMA.

**Suggested Remedy**

Adopt the text proposed in the latest revision of  C802.16m-10/1185

**GroupResolution**                    **Decision of Group:**   **Principle**

Adopt the text proposed in C802.16m-10/1185r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.8; Other LBS

**Editor's Notes**          **Editor's Actions**     a) done

| **Comment by:** | Lei Zhou | **Membership Status:** | Member | **Date:** 2010-09-07 |
|---|---|---|---|---|

**Comment #** **B10212**        **Document under Review:** **P802.16m/D8**        **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 893  **Line** 65    **Fig/Table#**    **Subclause** 16.8.3.1.2

Although period of LBS-zone has been determined and included in IEEE 802.16m/D8, Initial start point of LBS-zone can't still be determined. If initial start point of LBS-zone isn't determined, AMS can't know where initial start point of LBS-zone is and ABS will have several initial start points to initially send ELBS zone based on current IEEE 802.16m/D8. So this contribution proposes to determine initial start point of LBS-zone.

**Suggested Remedy**

Adopt the proposed AWD text changes in contribution C802.16m-10/1106 or its latest revision.

**GroupResolution**          **Decision of Group:**  **Principle**

Adopt the proposed text changes in contribution C802.16m-10/1106r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.8; Other LBS

**Editor's Notes**          **Editor's Actions**    a) done

| | | | |
|---|---|---|---|
| **Comment by:** | Lei Zhou | **Membership Status:** Member | **Date:** 2010-09-07 |

**Comment #** **B10213**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐          **Page** 895     **Line** 46          **Fig/Table#**          **Subclause** 16.8.3.4

This comment proposes to clarify operation procedure and usage of parameters of AAI-SCN-RSP/REP messages for triggering and reporting for D-LBS zone.

**Suggested Remedy**

Adopt the proposed AWD text changes in contribution C802.16m-10/1108 or its latest revision.

**GroupResolution**          **Decision of Group:**  **Principle**

Adopt the proposed AWD text changes in contribution C802.16m-10/1108r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.8; Other LBS

**Editor's Notes**          **Editor's Actions**     a) done

Editor's note: shaded blocks in the contribution are not clear.

**Comment  by:**              Michael   Gundlach           **Membership Status:**   Member              **Date:** 2010-09-08

**Comment #  B10214**                          **Document under Review:**  P802.16m/D8              **Ballot ID:  sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☒  **Satisfied** ☐      **Page** 895    **Line** 49         **Fig/Table#**          **Subclause** 16,8,3,4

A decision needs to be made if an ABS shall or may trigger ...

**Suggested Remedy**

Delete the word "shall" in the first sentence of the paragraph.

**GroupResolution**                    **Decision of Group:**   **Principle**

Resolved by Comment #B10213:

Adopt the proposed AWD text changes in contribution C802.16m-10/1108r1

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.8; Other LBS

**Editor's Notes**                   **Editor's Actions**     b) none needed

**Comment by:**　　　Alexey　Khoryaev　　　　　**Membership Status:**　Member　　　　　**Date:** ?

**Comment #**　**B10215**　　　　　　**Document under Review:** **P802.16m/D8**　　　　**Ballot ID:**　**sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 895　**Line** 49　　**Fig/Table#**　　**Subclause** 16.8.3

Currently there is no indication whether the measurements of signal location parametes shall be performed based on D-LBS zone location beacons. The contribution C802.16m-10/1186 proposes to add to AAI_SCN-RSP message one optional bit that will indicate to the AMS that AAI_SCN-RSP message is used to trigger measurement of signal location parameters over the D-LBS zone.

**Suggested Remedy**

Adopt the text proposed in the latest revision of  C802.16m-10/1186

**GroupResolution**　　　　　　　**Decision of Group:**　**Principle**

Resolved by B10213:

Adopt the proposed AWD text changes in contribution C802.16m-10/1108r1

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.8; Other LBS

**Editor's Notes**　　　　**Editor's Actions**　　b) none needed

The tables from this comment are already covered in comment B038

| **Comment by:** | | Alexey   Khoryaev | **Membership Status:** | Member | **Date:** ? |

**Comment #** **B10216**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**    **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 895   **Line** 49     **Fig/Table#**     **Subclause** 16.8.3

In current text of the D8, for the transmission of location beacon in D-LBS zone (represented by the SA-Preamble sequence) the per antenna subblock  interleaving and antenna rotation patterns are not specified for the case of multiple transmit antennas. The contribution C802.16m-10/1187 clarifies the location beacon transmission for multiple transmit antenna systems.

**Suggested Remedy**

Adopt the text proposed in the latest revision of  C802.16m-10/1187

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

This contribution has no simulation results to verify that multiple antenna can't support ELBS zone. So we needn't add any limit to MIMO for beacon signal of ELBS.

**Group's Notes**

Clause 16.8; Other LBS

**Editor's Notes**          **Editor's Actions**     b) none needed

| **Comment by:** | Eunkyung Kim | **Membership Status:** | Member | **Date:** | 2010-09-09 |

**Comment #** **B10217**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 900     **Line** 49     **Fig/Table#**     **Subclause** 16.9.2.4

To support E-MBS on the multicarrier deployment, Unicast Available Interval Bitmap needs to update/delete using AAI_DSC/DSD in addition to AAI_DSA transaction.

**Suggested Remedy**

Please adopt the text proposal in IEEE C802.16m-10/1220 or its lastest revision.

**GroupResolution**          **Decision of Group:**   **Principle**

Adopt the text proposal in IEEE C802.16m-10/1220r2

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.9; Other eMBS

**Editor's Notes**          **Editor's Actions**     a) done

The tables from this comment are already covered in comment B041

| **Comment by:** | Eunkyung  Kim | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #** **B10218**　　　　　　**Document under Review:** **P802.16m/D8**　　　　**Ballot ID:** **sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 901　**Line** 40　　**Fig/Table#**　　**Subclause** 16.9.2.4

In order to support E-MBS operation on the multicarrier deployment, Unicast Available Interval Bitmap to perform carrier switching is defined. In the part of E-MBS HO procedure, Unicast Available Interval Bitmap needs to be included in the AAI_RNG-RSP.

**Suggested Remedy**

Please adopt the text proposal in IEEE C802.16m-10/1221 or its lastest revision.

**GroupResolution**　　　　　　　　**Decision of Group:**　**Disagree**

**Reason for Group's Decision/Resolution**

AAI DSC message can provide that information after handover.

**Group's Notes**

Clause 16.9; Other eMBS

**Editor's Notes**　　　　**Editor's Actions**　　b) none needed

| **Comment by:** | | Jaesun Cha | | **Membership Status:** | Member | | **Date:** ? |

| **Comment #** B10219 | | **Document under Review:** P802.16m/D8 | | **Ballot ID:** sb_16m |

| **Comment** | **Type** Technical | **Part of Dis** ☐ | **Satisfied** ☐ | **Page** 902 | **Line** 4 | **Fig/Table#** 978 | **Subclause** 16.9.3.1 |

In the last meeting, we agreed to reformat control message tables. This contribution propposes a reformatted message table for AAI-E-MBS-CFG message.

**Suggested Remedy**

Adopt contribution C802.16m-10/1129

**GroupResolution**          **Decision of Group:**   **Agree**

Adopt contribution C802.16m-10/1129

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.9; Other eMBS

**Editor's Notes**          **Editor's Actions**     a) done

| | | | | | |
|---|---|---|---|---|---|
| **Comment by:** | Joey Chou | **Membership Status:** | Member | **Date:** | 2010-09-08 |

**Comment #** **B10220**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 902   **Line** 5          **Fig/Table#** 978     **Subclause** 16.9.3.1

AAI-E-MBS-CFG is a MAC control message, and should be move to section 16.2.3.62

**Suggested Remedy**

Move the message to section 19.2.3.62

**GroupResolution**                    **Decision of Group:** **Principle**

Adopt contribution C80216m-10/1260

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.9; Other eMBS

**Editor's Notes**          **Editor's Actions**     a) done

| **Comment  by:** | Eunkyung  Kim | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #  B10221**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**    **Type** Technical    **Part of Dis** ☐   **Satisfied** ☐    **Page** 902   **Line** 60    **Fig/Table#** 978    **Subclause** 16.9.3.1

AAI_E-MBS-CFG messaged defines the FID mapping between one E-MBS Zone and another E-MBS Zone not service ABS and neighbor ABS.

**Suggested Remedy**

In the Column of "Condition" of the line 60, page 902 in P802.16m/D8,

Replace "neighbor ABS" with "neighbor E-MBS Zone"

**GroupResolution**                    **Decision of Group:**   **Agree**

In the Column of "Condition" of the line 60, page 902 in P802.16m/D8,

Replace "neighbor ABS" with "neighbor E-MBS Zone"

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause 16.9; Other eMBS

**Editor's Notes**          **Editor's Actions**     a) done

The tables from this comment are already covered in comment B10219

**Comment  by:**          Eunkyung  Kim                    **Membership Status:**    Member                    **Date:** 2010-09-09

**Comment #  B10222**                    **Document under Review:  P802.16m/D8**                    **Ballot ID:  sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☐  **Satisfied** ☐          **Page** 903    **Line** 64          **Fig/Table#**          **Subclause** 16.9.3.1

In the example in Figure 609, the size of the seconde E-MBS zone is 3 not 2.

**Suggested Remedy**

[Adopt the following change in line 64-65, page 903 in P802.16m/D8]

Hence, the number of zones is 2. Each index of two zones is 1, 6 respectively and each size of two zones is 5, <del>2</del> <ins>3</ins> respectively.

**GroupResolution**                    **Decision of Group:**    **Agree**

[Adopt the following change in line 64-65, page 903 in P802.16m/D8]

Hence, the number of zones is 2. Each index of two zones is 1, 6 respectively and each size of two zones is 5, <del>2</del> <ins>3</ins> respectively.

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.9; Other eMBS

**Editor's Notes**                    **Editor's Actions**      a) done

**Comment  by:**          Jaesun  Cha                            **Membership Status:**    Member                      **Date:** ?

**Comment #**  **B10223**                    **Document under Review:**  **P802.16m/D8**                **Ballot ID:**  **sb_16m**

**Comment**          **Type** Technical          **Part of Dis** ☐  **Satisfied** ☐          **Page** 909    **Line** 7                    **Fig/Table#** 982          **Subclause**  16.11

The AMS may restart CDMA-based HO ranging if it does not receive either UL resource allocation in the T3 after receiving a success status notification. (page 315) But, this feature is not captured in the definition of T3 timer.


**Suggested Remedy**

[Modify 'Time Reference' Field on page 909, line 7 as follows]


Ranging response reception timeout following the transmission of a ranging request. ~~or~~ UL BW allocation timeout following the transmission of a fragment of ranging request or UL BW allocation timeout following the success status notification to the HO ranging code.


**GroupResolution**                              **Decision of Group:**   **Agree**


[Modify 'Time Reference' Field on page 909, line 7 as follows]


Ranging response reception timeout following the transmission of a ranging request. ~~or~~ UL BW allocation timeout following the transmission of a fragment of ranging request or UL BW allocation timeout following the success status notification to the HO ranging code.


**Reason for Group's Decision/Resolution**


**Group's Notes**

Clause 16.11; General AAI Global Values

**Editor's Notes**                    **Editor's Actions**      a) done

**Comment by:**          Joey  Chou          **Membership Status:**  Member          **Date:** 2010-09-08

**Comment #**  **B10224**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 920     **Line** 14     **Fig/Table#**          **Subclause**  Annex R.2

AAI-EMBS-REP / RSP  ASN.1 code is missing in Annex R.2 but AAI-EMBS-REP / RSP  message tables are present  in the D8 draft.

**Suggested Remedy**

Adopt contribution C802.16m-10/1131.doc or later version

**GroupResolution**          **Decision of Group:**  **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment by:**　　Joey　Chou　　　　　**Membership Status:**　Member　　　　**Date:** 2010-09-08

**Comment #**　**B10225**　　　　　**Document under Review:**　**P802.16m/D8**　　　　**Ballot ID:**　**sb_16m**

**Comment**　　**Type** Technical　　**Part of Dis** ☐　**Satisfied** ☐　　**Page** 921　**Line** 12　　**Fig/Table#**　　**Subclause** Annex R.2

AAI-NBR-REQ ihas been removed in D8 draft

**Suggested Remedy**

1) <del> aaiNbrReq AAI-NBR-REQ </del>

2) at page 960, line 22
 <del>
 -- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-
-- Neighbor List Request
-- +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-
AAI-NBR-REQ ::= SEQUENCE {
lsbRequestedBSID INTEGER (0..4095),
requestBSType INTEGER {
csgFemtoABS (0),
osgFemtoABS (1)
} (0..3),
...
}</del>

**GroupResolution**　　　　　　　　**Decision of Group:**　**Disagree**

**Reason for Group's Decision/Resolution**

Proposed text is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**　　　　　　**Editor's Actions**　　b) none needed

**Comment_by:**          Anshuman  Nigam          **Membership Status:**  Member          **Date:** ?

**Comment #  B10226**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 921   **Line** 12     **Fig/Table#**     **Subclause** Annex R.2

In D8 the AAI_NBR-REQ message was removed but one reference to AII_NBR-REQ was missed from deletion. This contribution cleans up the specification by removing the remaining reference to the nonexistent message of AAI_NBR-REQ.

**Suggested Remedy**

Please adopt the proposed text in the latest version of the contribution C802.16m-10/1140

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

Proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**          **Editor's Actions**     b) none needed

| | |
|---|---|
| **Comment by:** | Joey Chou | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #** **B10227**     **Document under Review:** **P802.16m/D8**     **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 922   **Line** 17     **Fig/Table#**     **Subclause** Annex R.2

Conversion of MAC message tables to ASN.1 – Common definitions

**Suggested Remedy**

Adopt contribution C802.16m-10/1198.doc or later version

**GroupResolution**     **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**     **Editor's Actions**     b) none needed

**Comment  by:**          Joey  Chou          **Membership Status:**  Member          **Date:** 2010-09-08

**Comment #  B10228**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page**  927     **Line**  54     **Fig/Table#**          **Subclause**  Annex R.2

Conversion of Network Entry/Reentry Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1206.doc or later version

**GroupResolution**          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**          **Editor's Actions**     b) none needed

| Comment by: | Joey Chou | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #** **B10229**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**  **Type** Technical  **Part of Dis** ☐ **Satisfied** ☐  **Page** 938  **Line** 41  **Fig/Table#**  **Subclause** Annex R.2

Conversion of Network Exit Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1207.doc or later version

**GroupResolution**          **Decision of Group:** **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment by:**           Joey   Chou          **Membership Status:**   Member          **Date:** 2010-09-08

**Comment #**  **B10230**                    **Document under Review:** **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 940   **Line** 55        **Fig/Table#**          **Subclause** Annex R.2

updates to the AAI-DSX ASN.1 code in Annex R.2 to align with AAI-DSX message table in the D8 draft.

**Suggested Remedy**

Adopt contribution C802.16m-10/1132.doc or later version

**GroupResolution**                         **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**                **Editor's Actions**       b) none needed

| | | | | |
|---|---|---|---|---|
| **Comment by:** | Joey Chou | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #** **B10231**     **Document under Review:** **P802.16m/D8**     **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 948     **Line** 32     **Fig/Table#**     **Subclause** Annex R.2

Conversion of Security Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1210.doc or later version

**GroupResolution**     **Decision of Group:** **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**     **Editor's Actions**     b) none needed

**Comment by:**          Joey  Chou          **Membership Status:**  Member          **Date:** 2010-09-08

**Comment #  B10232**                    **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**      **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page** 950      **Line** 37      **Fig/Table#**          **Subclause**  Annex R.2

Conversion of ARQ Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1196.doc or later version

**GroupResolution**                    **Decision of Group:**    **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**          **Editor's Actions**      b) none needed

**Comment  by:**              Anil  Agiwal          **Membership Status:**  Member              **Date:** ?

**Comment #  B10233**              **Document under Review:  P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☐ **Satisfied** ☐      **Page** 952    **Line** 2        **Fig/Table#**        **Subclause**  Annex R

The ASN.1 code for AAI-ARQ-RST is not correct. The SN is an optional field which is added only by the ARQ transmitter.

**Suggested Remedy**

Adopt the proposed text in contribution C802.16m-10/1095

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**              **Editor's Actions**      b) none needed

**Comment  by:**          Joey  Chou                    **Membership Status:**   Member              **Date:** 2010-09-08

**Comment #**  **B10234**                    **Document under Review:** **P802.16m/D8**                **Ballot ID:** **sb_16m**

**Comment**          **Type** Technical      **Part of Dis** ☐ **Satisfied** ☐      **Page** 952   **Line** 18      **Fig/Table#**          **Subclause**  Annex R.2

Conversion of Sleep Mode Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1211.doc or later version

**GroupResolution**                          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**                **Editor's Actions**      b) none needed

| **Comment  by:** | Joey  Chou | **Membership Status:** | Member | **Date:** | 2010-09-08 |

**Comment #** **B10235**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 955   **Line** 21     **Fig/Table#**          **Subclause** Annex R.2

Conversion of Handover Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1200.doc or later version

**GroupResolution**          **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment  by:**          Joey   Chou          **Membership Status:**   Member          **Date:** 2010-09-08

**Comment #**  **B10236**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 962   **Line** 17     **Fig/Table#**     **Subclause** Annex R.2

Conversion of Idle Mode Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1202.doc or later version

**GroupResolution**                     **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment by:**          Joey  Chou          **Membership Status:**    Member          **Date:** 2010-09-08

**Comment #**  **B10237**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**          **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 963    **Line** 30          **Fig/Table#**          **Subclause**  Annex R.2

Conversion of Multicarrier Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1205.doc or later version

**GroupResolution**                    **Decision of Group:**    **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment by:**          Joey  Chou          **Membership Status:**   Member          **Date:** 2010-09-08

**Comment #** **B10238**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**   **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐    **Page** 966   **Line** 40   **Fig/Table#**        **Subclause** Annex R.2

Conversion of Power Control Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1208.doc or later version

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**          **Editor's Actions**     b) none needed

| **Comment by:** | Joey  Chou | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #**  **B10239**                 **Document under Review:**  **P802.16m/D8**                 **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 967     **Line** 23     **Fig/Table#**     **Subclause** Annex R.2

Conversion of Co-located Coexistence Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1197.doc or later version

**GroupResolution**                 **Decision of Group:**  **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment by:**        Joey  Chou              **Membership Status:**   Member              **Date:** 2010-09-08

**Comment #  B10240**              **Document under Review:** **P802.16m/D8**              **Ballot ID:  sb_16m**

**Comment**        **Type** Technical      **Part of Dis** ☐  **Satisfied** ☐      **Page**  968    **Line**  59        **Fig/Table#**              **Subclause**  Annex R.2

Conversion of MIMO Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1203.doc or later version

**GroupResolution**                  **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**              **Editor's Actions**      b) none needed

**Comment by:**          Joey  Chou          **Membership Status:**  Member          **Date:** 2010-09-08

**Comment #  B10241**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page**  976     **Line**  6     **Fig/Table#**          **Subclause**  Annex R.2

Conversion of FFR Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1199.doc or later version

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**          **Editor's Actions**     b) none needed

| **Comment  by:** | Joey  Chou | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #**  **B10242**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 977     **Line** 5     **Fig/Table#**     **Subclause**  Annex R.2

Conversion of SON Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1212.doc or later version

**GroupResolution**                    **Decision of Group:**  **Disagree**

**Reason for Group's Decision/Resolution**

Since the SON-ADV message has changed (based on comment 10026), this ASN.1 is incompatible with the latest SON-ADV message.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**          **Editor's Actions**     b) none needed

| **Comment by:** | Joey Chou | **Membership Status:** | Member | **Date:** 2010-09-08 |

**Comment #** **B10243**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 977   **Line** 5          **Fig/Table#**          **Subclause** Annex R.2

Conversion of System Information Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1213.doc or later version

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment by:**        Joey  Chou            **Membership Status:**   Member        **Date:** 2010-09-08

**Comment #**  **B10244**                **Document under Review:** **P802.16m/D8**        **Ballot ID:**  **sb_16m**

**Comment**        **Type** Technical    **Part of Dis** ☐  **Satisfied** ☐      **Page** 977    **Line** 63        **Fig/Table#**        **Subclause**  Annex R.2

Conversion of Relay Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1209.doc or later version

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**            **Editor's Actions**      b) none needed

| **Comment by:** | Lei Zhou | **Membership Status:** | Member | **Date:** 2010-09-07 |

**Comment #** **B10245**          **Document under Review:** **P802.16m/D8**          **Ballot ID:** **sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐ **Satisfied** ☐     **Page** 979  **Line** 61     **Fig/Table#**     **Subclause** Annex R

This comment only modifies bit size of change count for AAI_NBR-ADV in AAI-LBS-ADV of ASN.1 code in order to be consistent with message AAI_NBR-ADV in 16m/D8.

**Suggested Remedy**

change ASN.1 code bit size of change count for AAI_NBR-ADV in line 61 page 979 as follows:

aaiNbrAdvConfigChangeCount     INTEGER (0..<del> 255 </del><ins> 7 </ins> ) OPTIONAL,

**GroupResolution**                    **Decision of Group:**   **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes**          **Editor's Actions**     b) none needed

**Comment by:** Joey Chou **Membership Status:** Member **Date:** 2010-09-08

**Comment #** **B10246** **Document under Review:** **P802.16m/D8** **Ballot ID:** **sb_16m**

**Comment** **Type** Technical **Part of Dis** ☐ **Satisfied** ☐ **Page** 980 **Line** 29 **Fig/Table#** **Subclause** Annex R.2

Conversion of Miscellaneous Functional Area MAC message tables to ASN.1

**Suggested Remedy**

Adopt contribution C802.16m-10/1204.doc or later version

**GroupResolution** **Decision of Group:** **Disagree**

**Reason for Group's Decision/Resolution**

The proposed remedy is incomplete.

**Group's Notes**

Clause Annex R.2; Other Annex; ASN.1

**Editor's Notes** **Editor's Actions** b) none needed

| **Comment  by:** | YoungKyo   Baek | **Membership Status:** | Member | **Date:** 2010-09-09 |

**Comment #  B10247**          **Document under Review:  P802.16m/D8**          **Ballot ID:  sb_16m**

**Comment**     **Type** Technical     **Part of Dis** ☐  **Satisfied** ☐     **Page** 982   **Line** 1     **Fig/Table#**     **Subclause** Annex S

[It was accepted in session #68.5 but some remedies are wrongly implemented]

Test vectors for cryptographic methods presents in Annex S.
To prevent misunderstanding we suggest fixing test vectors and some typos.

**Suggested Remedy**
Adopt the proposed text in contribution C802.16m-10/1243 or its later version.

**GroupResolution**               **Decision of Group:**   **Agree**

Adopt the proposed text in contribution C802.16m-10/1243

**Reason for Group's Decision/Resolution**

**Group's Notes**
Clause Annex S; Other Annex

**Editor's Notes**               **Editor's Actions**     a) done

**Comment by:**     Rongzhen  Yang                    **Membership Status:**   Member                    **Date:** 2010/09/13

**Comment #**  **B10248L**                **Document under Review:** **P802.16m/D6**              **Ballot ID:**  **sb_16m**

**Comment**      **Type** Technical       **Part of Dis** ☐  **Satisfied** ☐      **Page** 866    **Line** 1       **Fig/Table#** 962      **Subclause** 16.3.10.3.2

During the uplink power control processing defined in 16.3.8.4, the uplink power per stream will be controlled for normalization by parameter "beta", however, in the original Table 962 – Uplink data and pilot subcarriers power, the value of "Bd" is defined as 1/Mt for normalization, i.e, if "beta" is defined as 1, there is misunderstanding for duplicated normalization of power.

Therefore, it is suggested to change "Bd" as 1 (unitary power) in table 962, to avoid the potential misunderstanding of this table.

**Suggested Remedy**

Adopt the modification in latest contribution of C802.16m-10/1254

**GroupResolution**                    **Decision of Group:**   **Agree**

Adopt the modification in C802.16m-10/1254

**Reason for Group's Decision/Resolution**

**Group's Notes**

Clause 16.6; Other Relay

**Editor's Notes**              **Editor's Actions**     a) done

| **Comment  by:** | Thomas  Lee | **Membership Status:** | **Date:** |

**Comment #**  **B10249L**          **Document under Review:**  **P802.16m/D8**          **Ballot ID:**  **sb_16m**

**Comment**          **Type** Editorial          **Part of Dis** ☐ **Satisfied** ☐          **Page** 190   **Line** 23          **Fig/Table#**          **Subclause** 16.2.3.39

There are many misspellings of the kind: 2bits or xbits (where x is a number). When 'bit' is a noun, then the correct spelling is: 2 bits or two bits. Examples: The field is 2 bits long. Two bits are used to signal the frame index. When a number and the word 'bit' are combined into an adjective, then the correct spelling is 2-bit. Examples: A 2-bit field. The 2-bit frame index identifies a frame within a superframe.

**Suggested Remedy**

Search for all occurences of 1bit, 2bit, ..., 9bit, 0bit in the document and correct the spelling.

**GroupResolution**                    **Decision of Group:**   **Agree**

Search for all occurences of 1bit, 2bit, ..., 9bit, 0bit in the document and correct the spelling.

**Reason for Group's Decision/Resolution**

**Group's Notes**

**Editor's Notes**                    **Editor's Actions**      a) done

**Comment by:**          Thomas   Lee          **Membership Status:**                    **Date:**

**Comment #  B10250L**                **Document under Review:  P802.16m/D8**           **Ballot ID:  sb_16m**

**Comment**      **Type** Editorial      **Part of Dis** ☐  **Satisfied** ☐      **Page** 843    **Line** 6          **Fig/Table#**          **Subclause** 16.4.7.2

T-ABS is a defined acronym.  Use it consistently.

**Suggested Remedy**

On page 843, line 6, replace target ABS with T-ABS.
On page 886, line 21-22, replace 3 occurrences of target ABS with T-ABS.

**GroupResolution**                **Decision of Group:**  **Agree**

On page 843, line 6, replace target ABS with T-ABS.
On page 886, line 21-22, replace 3 occurrences of target ABS with T-ABS.

**Reason for Group's Decision/Resolution**

**Group's Notes**

**Editor's Notes**                **Editor's Actions**      a) done

needs second remedy (16.7) done (RGM)