

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Roger Marks

Membership Status:

Date:

Comment # **A001**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 0 Line 70 Fig/Table# Subclause all

The following text must appear in the footer of each page of each version of the draft: "This is an unapproved IEEE Standards draft, subject to change."

Suggested Remedy

Add the following to the footer of each page of the source document: "This is an unapproved IEEE Standards draft, subject to change."

GroupResolution

Decision of Group: **Agree**

Add the following to the footer of each page of the source document: "This is an unapproved IEEE Standards draft, subject to change."

Reason for Group's Decision/Resolution

Group's Notes

Frontmatter, General: Frontmatter

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Paul Nikolich

Membership Status:

Date:

Comment # **A002**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 55 Line 45 Fig/Table# Subclause 16.2.2.1.3.5

The text in 16.2.2.1.3.5 AMS Battery Level Report Header refers to Table 661, it should be Table 663.

Suggested Remedy

change reference in 16.2.2.1.3.5 AMS Battery Level Report Header text to Table from 661 to 663

GroupResolution

Decision of Group: **Agree**

change reference in 16.2.2.1.3.5 AMS Battery Level Report Header text to Table from 661 to 663

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions b) none needed

no change; the remedy is wrong

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Maximilian Riegel

Membership Status:

Date:

Comment # A003

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type General Part of Dis Satisfied Page 11 Line 18 Fig/Table# Subclause 5.2

The statement 'The packet CS is used for transport for all packet-based protocols.' does not add any meaning to the specification as there is no other method than the packet CS anyhow.

Suggested Remedy

Delete statement, i.e. remove P11, line 18.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

sentence is needed to clarify that packet based protocols does not include ATM

Group's Notes

Clause 5, MAC: Service Specific CS

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Maximilian Riegel

Membership Status:

Date:

Comment # A004

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type General Part of Dis Satisfied Page 14 Line 29 Fig/Table# Subclause 5.2.5.2

Which parameters are referenced by the statement 'For AMS and ABS, the parameters may be used in IP classification rules.'

Suggested Remedy

Change paragraph to: "IP classification rules operate on the fields of the IP header and the transport protocol. The For SS/AMS and BS/ABS, the parameters (11.13.18.3.3.2 through 11.13.18.3.3.7 and 11.13.18.3.3.16) may be used in IP classification rules."

GroupResolution

Decision of Group: Principle

Resolved by comment #160.

Resolution:

P 14 L29:

For AMS and ABS, the <ins>Packet Classification Rule</ins> parameters <ins>(Table 740)</ins>may be used in IP classification rules.

Reason for Group's Decision/Resolution

Group's Notes

Clause 5, MAC: Service Specific CS

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Maximilian Riegel

Membership Status:

Date:

Comment # A005

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 14 Line 34 Fig/Table# Subclause 5.2.6

Section 5.2.6 is incomplete and contradicts established networking design principles; proposed solution is not aligned to the rest of section 5.2 and misses essential specification text, if the intention is to define a further specific part of the packet CS. In particular, nothing is stated, how classification is applied in combination with multiprotocol flow, or how systems should react, when not all protocols are supported.

Suggested Remedy

Remove whole section 5.2.6
Remove page 11, line 30 -50

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

removal of this section leaves not method for handling CS muxing

Group's Notes

Clause 5, MAC: Service Specific CS

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Roger Marks

Membership Status:

Date:

Comment # A006

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type General Part of Dis Satisfied Page 887 Line 4 Fig/Table# Subclause Annex P

Annexes P, Q, R, and S need to be renamed with new designations. Annex P was introduced into IEEE Std 802.16 in 802.16j. Annex Q was introduced into IEEE Std 802.16 in 802.16h. Note that this comment was raised during the initial Sponsor Ballot round (Comment 489).

Suggested Remedy

Rename Annex P to be Annex R.
Rename Annex Q to be Annex S.
Rename Annex R to be Annex T.
Rename Annex S to be Annex U.
Adjust internal subclause and table numbering accordingly.

GroupResolution

Decision of Group: Agree

Rename Annex P to be Annex R.
Rename Annex Q to be Annex S.
Rename Annex R to be Annex T.
Rename Annex S to be Annex U.
Adjust internal subclause and table numbering accordingly.

Reason for Group's Decision/Resolution

Group's Notes

Annex P, General: Annex

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Shih-Yuan Cheng

Membership Status:

Date:

Comment # **A007**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 284 Line 26 Fig/Table# Subclause 16.2.6.3.2

Comment No. A1322 in 80216-10/0040r3 has been agreed, but not in P802.16m/D7.

Suggested Remedy

Into P80216m Draft 7 as described in C80216m-10_0765r1 which is agreed in the 12-15 July 2010 in San Diego meeting (Session #68).

GroupResolution

Decision of Group: **Agree**

accept resolution in C80216m-10_0765r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Luciano Sarperi

Membership Status:

Date:

Comment # A008

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 96 Line 19 Fig/Table# Subclause 16.2.3.7

In the four entries below "E) Capabilities for interference mitigation support" in column "Value/Note", all occurrences of "ABS" should be replaced by "AMS", since this is the request message sent by the AMS. There was no technical comment at the initial ballot to modify this and this broken state should be fixed.

Suggested Remedy

In the four entries below "E) Capabilities for interference mitigation support" in column "Value/Note" (E.1 to E.4), replace all occurrences of "ABS" by "AMS".

GroupResolution

Decision of Group: Agree

In the four entries below "E) Capabilities for interference mitigation support" in column "Value/Note" (E.1 to E.4), replace all occurrences of "ABS" by "AMS".

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Luciano Sarperi

Membership Status:

Date:

Comment # A009

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type General Part of Dis Satisfied Page 101 Line 53 Fig/Table# Subclause 16.2.3.8

In the entry for "A.4.5) Multi_BS sounding calibration capability" in column "Value/Note", all occurrences of "AMS" should be replaced by "ABS", since this is the response message sent by the ABS.

Suggested Remedy

In the entry for "A.4.5) Multi_BS sounding calibration capability" in column "Value/Note", replace all occurrences of "AMS" by "ABS".

GroupResolution

Decision of Group: Agree

In the entry for "A.4.5) Multi_BS sounding calibration capability" in column "Value/Note", replace all occurrences of "AMS" by "ABS".

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; LMAC + Others

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Pangan Ting

Membership Status:

Date:

Comment # **A010**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **213** Line **58** Fig/Table# Subclause **16.2.3.48**

AAI_UL_MultiBS_MIMO_SBP message format is not complete. To be specific, the descriptions of interference sensitivity levels (ISL) are missing in Table 749

Suggested Remedy

Adopt the proposed text in C802.16m-10/0961 or its latest version

GroupResolution

Decision of Group: **Agree**

Adopt the proposed text in C802.16m-10/0961

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; LMAC + Others

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Luciano Sarperi

Membership Status:

Date:

Comment # **A011**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 823 Line 18 Fig/Table# Subclause 16.5.1.4

The description is ambiguous: "..based on measurement metric such as RSSI or CINR". It is proposed to define RSSI for this purpose.

Suggested Remedy

This 8 bit bitmap represents strongest 8 adjacent ABS in AAI-DL-IM message based on measurement metric such as RSSI or CINR <ins> RSSI </ins> which is reported by AAI-SCN-REP message

GroupResolution

Decision of Group: Principle

The proposed text in my comment is not correct since the AMS in some cases may not feed back RSSI, depending on the configuration for the AAI-SCN-REP message. The following modified remedy is proposed instead:

This 8 bit bitmap represents strongest 8 adjacent ABS in AAI-DL-IM message based on measurement metric such as RSSI or CINR which is reported by <ins>in the</ins> AAI-SCN-REP message. <ins> In case both RSSI and CINR are reported, the order shall be based on RSSI </ins> .

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.5, Other: Multi-BS MIMO

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Linghang Fan

Membership Status:

Date:

Comment # A012

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 138 Line 35 Fig/Table#

Subclause 16.2.3.20

Five bits are defined for "Idle Mode Retain Information element" in AAI_DREG-REQ message.

Suggested Remedy

Change size(bits) of "Idle Mode Retain Information elements" from 4 to 5.

GroupResolution

Decision of Group: Agree

Change size(bits) of "Idle Mode Retain Information elements" from 4 to 5.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Linghang Fan

Membership Status:

Date:

Comment # A013

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 142 Line 7 Fig/Table#

Subclause 16.2.3.21

Five bits are defined for "Idle Mode Retain Information element" in AAI_DREG-RSP message.

Suggested Remedy

Change size(bits) of "Idle Mode Retain Information elements" from 4 to 5.

GroupResolution

Decision of Group: Agree

Change size(bits) of "Idle Mode Retain Information elements" from 4 to 5.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Linghang Fan

Membership Status:

Date:

Comment # A014

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 147 Line 8 Fig/Table# Subclause 16.2.3.24

Operation request type for "0b10" is defined twice.

Suggested Remedy

change "0b10 = AAI_SLP-REQ message is transmitted to switch Sleep Cycle setting which has been negotiated since the AMS entered Sleep Mode"

to

"0b11 = AAI_SLP-REQ message is transmitted to switch Sleep Cycle setting which has been negotiated since the AMS entered Sleep Mode"

GroupResolution

Decision of Group: Agree

change "0b10 = AAI_SLP-REQ message is transmitted to switch Sleep Cycle setting which has been negotiated since the AMS entered Sleep Mode"

to

"0b11 = AAI_SLP-REQ message is transmitted to switch Sleep Cycle setting which has been negotiated since the AMS entered Sleep Mode"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Linghang Fan

Membership Status:

Date:

Comment # A015

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 147 Line 33 Fig/Table# Subclause 16.2.3.24

"significant bits" is an obscure expression.

Suggested Remedy

Change as below:

"6 significant bits" to "6 least significant bits"

GroupResolution

Decision of Group: Agree

Change as below:

"6 significant bits" to "6 least significant bits"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Linghang Fan

Membership Status:

Date:

Comment # A016

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 148 Line 60 Fig/Table# Subclause 16.2.3.25

Inconsistent Value/Note for FF BCH_Operation

Suggested Remedy

Change as below:
"0-3" to "3: reserved"

GroupResolution

Decision of Group: Agree

Change as below:
"0-3" to "3: reserved"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Linghang Fan

Membership Status:

Date:

Comment # A017

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 151 Line 6 Fig/Table# Subclause 16.2.3.25

Operation request type for "0b10" is defined twice.

Suggested Remedy

change "0b10 = Approves/Requests the switch of a Sleep Cycle setting which has been negotiated since the AMS entered Sleep Mode"
to
"0b11 = Approves/Requests the switch of a Sleep Cycle setting which has been negotiated since the AMS entered Sleep Mode"

GroupResolution

Decision of Group: Agree

change "0b10 = Approves/Requests the switch of a Sleep Cycle setting which has been negotiated since the AMS entered Sleep Mode"
to
"0b11 = Approves/Requests the switch of a Sleep Cycle setting which has been negotiated since the AMS entered Sleep Mode"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Linghang Fan

Membership Status:

Date:

Comment # A018

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 151 Line 6 Fig/Table# Subclause 16.2.3.25

"significant bits" is an obscure expression.

Suggested Remedy

Change as below:

"6 significant bits" to "6 least significant bits"

GroupResolution

Decision of Group: Agree

Change as below:

"6 significant bits" to "6 least significant bits"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Linghang Fan

Membership Status:

Date:

Comment # A019

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 153 Line 37 Fig/Table# Subclause 16.2.3.26

Column for SLPID_Update is missing in table 710.

Suggested Remedy

Add column for SLPID_Update

GroupResolution

Decision of Group: Agree

Add column for SLPID_Update

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Linghang Fan

Membership Status:

Date:

Comment # A020

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 168 Line 32 Fig/Table# Subclause 16.2.3.36

BSID is not included if condition is not met.

Suggested Remedy

Change "M/O" field of the BSID attribute from "M" to "O".

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

Table 720 was deleted by comment #10178.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Linghang Fan

Membership Status:

Date:

Comment # A021

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 168 Line 38 Fig/Table#

Subclause 16.2.3.36

"Request BS type" is not a mandatory attribute. It is indicated in the sentence above the table.

Suggested Remedy

Change "M/O" field of the "Request BS type" attribute from "M" to "O".

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

Table 720 was deleted by comment #10178.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Eldad Zeira

Membership Status:

Date:

Comment # A022

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 806 Line 50 Fig/Table# Subclause 16.4.6

Femto synchronization to the macro cell is now recommended but not required. It should be mandated in all cases where interference can occur in either UL or DL.

Suggested Remedy

Rewrite text as:

A Femto ABS should be synchronized with the overlay ABS network <ins> in all cases where interference in UL or DL can occur </ins>

GroupResolution

Decision of Group: Principle

Modify the text in section 16.4.6 on page 806 in line 50 as follows:

A Femto ABS should be synchronized with the overlay ABS network <ins> atleast in all cases where interference in UL or DL can occur </ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Eldad Zeira

Membership Status:

Date:

Comment # **A023**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 806 Line 57 Fig/Table# Subclause 16.4.6

The standard already supports measurement of relative delay of neighbor ABS in AAI_SCN-REP. The serving ABS may use this information to refine its synchronization. The list of standard supported techniques that an ABS may use isn't complete without the its mention.

Suggested Remedy

Add this technique to the list, rewrite as

The Femto ABS may also achieve network synchronization from GPS or backhaul network (e.g. IEEE 1588) <ins> or from AMS attached to it or the overlaid macro </ins>

GroupResolution

Decision of Group: Principle

Modify the text in section 16.4.6 on page 806 line 57 as follows:

The Femto ABS may also achieve network synchronization from GPS or backhaul network (e.g. IEEE 1588) <ins> or from AMS that is either attached to it or to the overlaid macro in which case the overlaid macro indicates the time difference via the backhaul to the Femto ABS. </ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Eldad Zeira

Membership Status:

Date:

Comment # **A024**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 813 Line 27 Fig/Table# Subclause 16.4.10.1

Current text specifies:

"The Femto ABS may enter low-duty mode if there are no AMSs attached to the Femto ABS and there are no AMSs in the process of network entry"

In some cases, AMS with services that do not require tight latency may tolerate low duty mode operation even when attached. There are several mechanisms that already exist in 16m that allow an ABS to conserve its power should it wish to do so while still providing sufficient QoS to such services.

Suggested Remedy

I propose to leave it the the ABS to decide under which conditions it may enter low duty mode. Thus this sentence should be deleted.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

As the sentence states that the ABS may enter low-duty mode if there are no AMSs attached, this does not restrict an ABS from entering low-duty mode in any case.

The indicated still allows the ABS to decide what to do.

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions b) none needed

Comment by:

Eldad Zeira

Membership Status:Date:Comment # A025Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 815 Line 1 Fig/Table# Subclause 16.4.11

Text states that "The interference between Femto and/or macro can be mitigated by static or semi-static radio resource reservation and resource sharing using FDM and/or TDM manner and/or DL power control. While using the TDM manner, Femto ABS may disable some of its subframes and announce the disabled subframes via AAI_SON-ADV."

The message AAI_SON-ADV does not contain the required fields.

Suggested Remedy

Rewrite as:

The interference between Femto and/or macro can be mitigated by static or semi-static radio resource reservation and resource sharing using FDM and/or TDM manner and/or DL power control. While using the TDM manner, Femto ABS may disable some of its subframes and announce the disabled subframes via AAI_SON-ADV

GroupResolutionDecision of Group: DisagreeReason for Group's Decision/Resolution

The frame configuration index in SP3 is used for this.

Group's Notes

Clause 16.4, Other: Femto

Editor's NotesEditor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Eldad Zeira

Membership Status:

Date:

Comment # **A026**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 854 Line 53 Fig/Table# Subclause 16.7.2.2

Text states that "ABS should report BSID, location of ABS (i.e. longitude, latitude, and sector bearing - indicating the direction where the sector is pointing), and ABS attributes (refer to AAI_NBR-ADV), in order to initiate Neighbor Macro ABS Self-configuration function" At this point it is not clear where is this reporting done. Currently location information is only reported in AAI_LBS-ADV, thus an ABS is required to support both Femto operation and LBS, creating a feature dependency. Sector bearing isnt reported anywhere. Moreover, direct observations that are already available are more suitable for the purpose.

Suggested Remedy

Remove the paragraph

GroupResolution

Decision of Group: Principle

Modify the text as indicated:

"ABS should report BSID, location of ABS (i.e. longitude, latitude, <ins> altitude. </ins> and sector bearing - indicating the direction where the sector is pointing), and ABS attributes (refer to AAI_NBR-ADV), <ins> to the SON server</ins> in order to initiate Neighbor Macro ABS Self-configuration function"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.7, Other: SON

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Eldad Zeira

Membership Status:

Date:

Comment # **A027**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment

Type Technical

Part of Dis

Satisfied

Page 867

Line 10

Fig/Table#

Subclause

The sentence "Each multicast/broadcast connection is associated with a service flow provisioned with the QoS and traffic parameters for that service flow" is misleading.

There is no provision for the AMS to report on the quality of service it is experiencing. Without such a provision, there is no way to relate any set of traffic parameters to a QoS. Therefore, while traffic parameters are configured, QoS is not.

Suggested Remedy

Rewrite as:

Each multicast/broadcast connection is associated with a service flow provisioned with the QoS and traffic parameters for that service flow

GroupResolution

Decision of Group: Principle

QoS parameters for E-MBS flows are determined by network and do not need to be provisioned to each AMS.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.9, Other: eMBS

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yi-Ting Lin

Membership Status:

Date:

Comment # **A028**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **827** Line **34** Fig/Table# Subclause **16.6.2.3.1**

In current IEEE 802.16m/D7, the Forwarding ID in ARFEH not only identifies the AMS transmitting or receiving the ASN data between ABS and ARS, but also identifies the tunnel forwarding the ASN data. In this contribution, the description of Forwarding ID is modified to expand on the cases.

Suggested Remedy

Adopt the contribution C80216m-10/0986 or its latest version.

GroupResolution

Decision of Group: **Agree**

Adopt the contribution C80216m-10/0986

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yi-Ting Lin

Membership Status:

Date:

Comment # **A029**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **56** Line **60** Fig/Table# Subclause **16.2.2.2**

The ARFEH is accepted in IEEE 802.16m #68 session, and corresponding description shall be modified.

Suggested Remedy

Adopt the contribution C80216m-10/0987 or its latest version.

GroupResolution

Decision of Group: **Agree**

Adopt the contribution C80216m-10/0987

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yi-Ting Lin

Membership Status:

Date:

Comment # **A030**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **93** Line **45** Fig/Table# Subclause **16.2.3.6**

This contribution makes clear the size of New IDcell in the AAI_SON-ADV message.

Suggested Remedy

Adopt the contribution C80216m-10/0988 or its latest version.

GroupResolution

Decision of Group: **Agree**

Adopt the contribution C80216m-10/0988

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; LMAC + Others

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Li Li

Membership Status:

Date:

Comment # A031

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical

Part of Dis Satisfied

Page 256

Line 35

Fig/Table#

Subclause 16.2.5.2.3.1.1

Incorrect reference.

Suggested Remedy

Replace "As specified in Figure 401" with "As specified in Table 764".

GroupResolution

Decision of Group: Principle

In line 17, Page 256, replace "As specified in Figure 401" with "As specified in Table 764".

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Li Li

Membership Status:

Date:

Comment # **A032**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 157 Line 48 Fig/Table# Subclause 16.2.3.30

Do not concatenate a number and a word without inserting a hyphen.

Suggested Remedy

Change: Each 4<ins> </ins>bit<ins>s</ins> represents a partition range for each cell type, as defined in 16.2.6.1.2 and Table 823

GroupResolution

Decision of Group: **Agree**

Change: Each 4<ins> </ins>bit<ins>s</ins> represents a partition range for each cell type, as defined in 16.2.6.1.2 and Table 823

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

Comment by:

Lei Wang

Membership Status:Date:Comment # A033Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 303 Line 61 Fig/Table# Subclause 16.2.7

The sentence in line 61 on page 303 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 C80216m-10_0098r3 or its latest version.

GroupResolutionDecision of Group: DisagreeReason for Group's Decision/Resolution

To fix the subframe a flow can be scheduled during negotiation can make serious limitation for ABS's scheduling.

Group's Notes

Clause 16.2.7, MAC: Persistent Scheduling

Editor's NotesEditor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # **A034**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 538 Line 1 Fig/Table# Subclause 16.3.5.2.2

The long TTI burst vs. the use of assignment A-MAP IE needs to be clarified.

I am confused by the resolution given to comment #547 in 80216-10_0040r2 regarding the long TTI burst allocation vs. assignment A-MAP. I am copying the "reason" box below from 80216-10_0040r2 for comment #547:

"A-MAP region includes not only assignment A-MAP but also NUS A-MAP, HF-A-MAP, PC-A-MAP. And a long TTI burst can be signaled through an assignment A-MAP in all subframes. "

Note that the 2nd sentence above is totally unclear and incorrect about the A-MAP use for a long TTI allocation. First, it uses "can" i.e., the unclear part. Second, it says "an assignment A-MAP in all subframes" for a long TTI burst., which won't work for FDD system at all, i.e., the incorrect part.

We suggest that, for a long TTI burst, only one assignment A-MAP IE is used and it should be in the A-MAP of the first subframe of the long TTI burst's A-MAP relevance.

Suggested Remedy

change the paragraph in line 1 on page 538 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. 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. <ins> A long TTI data burst allocation is signaled by an A-MAP that corresponds to the first subframe of the long TTI data burst. </ins>

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

In page 375, line 1, "A DL Assignment A-MAP IE in the l-th DL subframe (when l is not 0) of the i-th frame may also indicate the long TTI transmission. In this case, the long TTI transmission of DL HARQ subpacket shall begin in the 0-th DL subframe of (i+1) frame.". As you can see, an A-MAP IE can signal a long TTI burst transmitted in the next frame.

Group's Notes

Clause 16.3.5, PHY: Downlink control structure

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # A035

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 480 Line 63 Fig/Table# Subclause 16.3.4.3.1

Based on the paragraph in line 63 on page 480 and Table 837, for $FP_i (i>0, FPCT \neq 2)$, only one value for $DCAS_i$ is explicitly signaled for all $i > 0$.

Therefore, It is misleading to use the notation $DCAS_i$ with i as subscript in Table 837, as comparing to all the other parameter names with subscript.

Suggested Remedy

Make the following changes:

1. in line 63 page 480, before "in the SFH....", insert the text "called $DCAS_i$,"
2. in line 55, page 552, Table 837, change " $DCAS_i$ " to " $DCAS_i$ "

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

Accepting this comment will make the specification inconsistent (this is also used in line 20).

Group's Notes

Clause 16.3.4, PHY: Downlink physical structure

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # A036

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 571 Line 10 Fig/Table# Subclause 16.3.5.5.2.4.1

Don't agree with the comment resolution to #554 in Session#68 TGM commentary database, 802.16-10/0040r2.

Comment #554 was about allocation granularity in the 20MHz system bandwidth. The comment was "disagree" with the following reason:

"This issue was analyzed in the original design. Refer to the analysis in section 4 of contribution C802.16m-09/1334r1. It has been shown that link adaptation with the granularity of feedback MCS levels as defined in the 802.16m is not adversely affected by the proposed reduction in assignable resource indices with 11 bits for 20MHz. The original analysis does require an update with $\text{delta_min} = 31/256$ based on Table 834, but this change does not change the final conclusion since $1/6 < 31/1422$. "

Note that $1/6$ is not less than $31/1422$. It is actually way bigger than $31/1422$.

Again, as mentioned in comment #554 in 802.16-10/0040r2, Sacrificing the allocation granularity seems a very bad 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 930, on page 742 in 16m/D7.

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 develop an alternative RI field encoding mechanism to solve the allocation granularity issue in the 20MHz system bandwidth.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

No specific remedy provided.

Group's Notes

Clause 16.3.5, PHY: Downlink control structure

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # A037

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 433

Line 12

Fig/Table#

Subclause 16.2.26

The word "Loss" is missing in the subsection title

Suggested Remedy

Change line 12 on page 433 as follows:

16.2.26 Coverage <ins> Loss </ins> Detection and Recovery

GroupResolution

Decision of Group: Principle

Resolved by comment #205.

Resolution:

change subclause title to "Coverage Loss Detection and Recovery from Coverage Loss"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.26, MAC: Coverage Detection and Recovery

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # A038

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 433 Line 47 Fig/Table# Subclause 16.2.26.1

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 C80216m-10_0968 or its latest version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

using signaling header for state change opens security risk.

vote: 1 for, 3 against, 0 abstain

Group's Notes

Clause 16.2.26, MAC: Coverage Detection and Recovery

Editor's Notes

Editor's Actions b) none needed

Comment by:

Lei Wang

Membership Status:Date:Comment # A039Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 434 Line 1 Fig/Table# Subclause 16.2.26.2

The paragraph in line 1 page 434 needs further clarification regarding the interaction between coverage loss detection and HO.

Suggested Remedy

Change the paragraph in line 1 page 434 as follows:

In case of a HO, if the <ins> serving </ins> ABS identifies the AAI_HO_CMD message is successfully sent to the AMS, the <ins> serving </ins> ABS shall stop the <ins> active_ABS_timer </ins> coverage loss detection procedure (i.e. described in 16.2.26.2) for the AMS. Once the <ins> serving </ins> ABS receives a MAC PDU (i.e. bandwidth request) from the AMS that is assumed to handover to a neighbor ABS (i.e. T-ABS), the <ins> serving </ins> ABS shall <ins> start active_ABS_timer </ins> initiate the coverage loss detection procedure (i.e. described in 16.2.26.2) for the AMS.

GroupResolutionDecision of Group: Principle

Accept the resolutions in contribution c80216m-10/1088.

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.26, MAC: Coverage Detection and Recovery

Editor's NotesEditor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # A040

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 391 Line 20 Fig/Table# Subclause 16.2.16

The operations about the Periodic Ranging Timer needs further specification, e.g., when start / restart?

Suggested Remedy

Change the bullet a) in line 20 on page 391 as follows:

a) The AMS maintains and controls a Periodic Ranging timer. The AMS shall starts the Periodic Ranging timer upon the completion of the initial network entry or the network re-entry. The AMS shall restart or reset the Periodic Ranging timer upon triggered by the events specified in the Periodic Ranging procedure below. The AMS shall stop the Periodic Ranging timer when it is disconnected from the ABS, e.g., entering idle mode, de-registered, or HO.

GroupResolution

Decision of Group: Principle

replace the bullet a) in line 20 on page 391 as follows:

a) The AMS maintains and controls a Periodic Ranging timer. The AMS shall starts the Periodic Ranging timer upon the completion of the initial network entry or the network re-entry. The AMS shall restart or reset the Periodic Ranging timer upon triggered by the events specified in the Periodic Ranging procedure below. The AMS shall stop the Periodic Ranging timer when it is disconnected from the ABS, e.g., entering idle mode, de-registered, or HO.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.16, MAC: Periodic Ranging

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # A041

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 391 Line 65 Fig/Table# Subclause 16.2.16

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 65 on page 391:

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

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.

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:Comment # **A042**Document under Review: **P802.16m/D7**Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 391 Line 65 Fig/Table# Subclause 16.2.16

In 16m/D7, 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 65 on page 391:

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.

GroupResolutionDecision of Group: **Disagree**Reason for Group's Decision/Resolution

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 raniging request bit.

Group's Notes

Clause 16.2.16, MAC: Periodic Ranging

Editor's NotesEditor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # **A043**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 344 Line 5 Fig/Table# Subclause 16.2.12.8

The parameter, MAC in-order delivery indicator, should be applied to both non-ARQ connection and ARQ connection, as long as it is a data transport connection. This is because, in an IP-based networks, Layer-2 in-order delivery is application-specific, i.e., it helps for certain applications. However, it cannot be used alone to guarantee the in-order delivery of the application that needs in-order delivery, because IP-based Layer-3 is above it and IP won't keep the delivery order. Therefore, we should not bind all the ARQ connections with Layer-2 in-order delivery.

Suggested Remedy

change the description box of "MAC in-order delivery indicator" in Table 783 as follows:

Indicate whether or not the order of delivery in <ins> the </ins> non-ARQ connection is preserved by the MAC.

0 : not preserved

1 : preserved

<ins> For ARQ connections, the default value is 1. </ins>

GroupResolution

Decision of Group: Principle

accept remedy in contribution c80216m-10/1084

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.12, MAC: Quality of Service (QoS)

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # A044

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 596

Line 17

Fig/Table#

Subclause 16.3.5.5.2.4.7

typo

Suggested Remedy

change "n" to "in"

GroupResolution

Decision of Group: Agree

change "n" to "in"

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

Same as 10148.

Comment by:

Lei Wang

Membership Status:Date:Comment # A045Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 596 Line 39 Fig/Table# Subclause 16.3.5.5.2.4.7

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 596 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 596, change the size field of the "Reserved" row from 20 to 15.

GroupResolutionDecision of Group: DisagreeReason for Group's Decision/Resolution

Because STID is transmitted through BR header, the ABS cannot know how much BW is needed for the specific AMS that sent the CDMA code. Also please see the text in page 332, line 25, "In Step 3, the AMS transmits a standalone BR header only".

Group's Notes

Clause 16.3.5, PHY: Downlink control structure

Editor's NotesEditor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # **A046**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 713 Line 37 Fig/Table# Subclause 16.3.8.1.5

The paragraph in line 36 on page 713 needs further clarification about how the BR preamble is transmitted.

Suggested Remedy

change the paragraph in line 36 page 713 as follows:

A BR tile is defined as six contiguous subcarriers by six OFDMA symbols. Each BR channel consists of three distributed BR tiles. <ins> Within a BR channel, </ins> Each BR tile carries a <ins> the same </ins> BR preamble and a part of a quick access message. The AMS may transmit the BR preamble only and leave the resources for the quick access message unused.

GroupResolution

Decision of Group: Agree

change the paragraph in line 36 page 713 as follows:

A BR tile is defined as six contiguous subcarriers by six OFDMA symbols. Each BR channel consists of three distributed BR tiles. <ins> Within a BR channel, </ins> Each BR tile carries a <ins> the same </ins> BR preamble and a part of a quick access message. The AMS may transmit the BR preamble only and leave the resources for the quick access message unused.

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # **A047**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 693 Line 3 Fig/Table# Subclause 16.3.7.3.3

Why not also introduce the concept of UL primary frequency partition, similar to DL?

Suggested Remedy

Change the paragraph in line 1 page 693 as follows:

If FFR is used in an UL AAI subframe, the UL control channels are used in the reuse 1 partition or the power-booster reuse 3 partition. The frequency partition where the UL control channels are located is indicated by the ABS through S-SFH SP1 IE <ins> , and it is called UL primary frequency partition</ins> .

GroupResolution

Decision of Group: Principle

Change the paragraph in line 1 page 693 as follows:

If FFR is used in an UL AAI subframe, the UL control channels are used in the reuse 1 partition or the power-booster reuse 3 partition. The frequency partition where the UL control channels are located is indicated by the ABS through S-SFH SP1 IE <ins> , and it is called Frequency partition location for UL control channels</ins> .

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:

Lei Wang

Membership Status:Date:Comment # A048Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 222 Line 20 Fig/Table# Subclause 16.2.3.56

Why does the AAI_MC-ADV have to be periodically broadcasted?

As shown in Section 16.2.8, the AAI_MC-ADV is needed at the MC operation initialization which is after the AMS enters the "operational" status. Therefore, it would be much efficiently for the ABS to unicast the AAI_MC-ADV message to the AMS who needs it either in a unsolicited way or upon requested from the AMS. Having said this, the ABS can broadcast it, not shall.

Note that periodic broadcasting is very expensive, particularly, with a potentially huge message with all the system configuration info, e.g., AAI_SCD, SFH SPs, etc. for each of the carriers.

Suggested Remedy

Make the following changes:

1. on page 222, change the paragraph in line 20 as follows:

The ABS which supports multiple RF carriers shall ~~periodically broadcast~~ AAI_MC-ADV message ~~for the reception by all AMSs~~ to AMSs in an unicast manner and/or broadcast manner.

2. on page 309, change the paragraph in line 64 as follows:

The ABS will broadcast the SFH on each carrier with the format defined in 16.3.6.2.1. The ABS shall also provide the AMS with basic radio configuration for all available carriers in the ABS through the AAI_MC-ADV message. This message ~~is periodically broadcast~~ by the ABS, which ~~includes the multicarrier mode and the configurations supported by the ABS.~~ It can be broadcasted by the ABS for the reception by all the AMSs and it can also be unicast by the ABS for the reception by a specific AMS with or without receiving a request from the AMS. ~~The multicarrier configuration information is relevant to and shall be used by all AMSs in any of multicarrier modes or in single carrier mode.~~

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The information in an AAI_MC-ADV message is necessary for any AMS in a system. The usage of AAI_MC-ADV are same as that of an AAI_NBR-ADV which is transmitted in a broadcast manner.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC MC (multicarrier)

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # **A049**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 217 Line 37 Fig/Table# Subclause 16.2.3.52

The "DL/UL indicator" should be per carrier attribute, not per carrier group in the AAI_MC-REQ message. In addition, the above comment triggers a very critical issue to the 16m MAC control message specification, i.e., the current table format does not properly specify the location of the information fields regarding the loops and if-condition statements. If there were not Table 753 with the 16e-style pseudo c-code, we won't be able to identify the question of where the "DL/UL indicator" field should be. In order to properly specify the 16m MAC control messages, we strongly recommend using the 16e-style pseudo c-code to specify the MAC control messages, before converting them to ASN.1 code.

Suggested Remedy

move the row of "DL/UL indicator" to inside the "j" loop in Table 753.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

DL/UL indicator is related to the capability that the combinations of carriers AMS can transmit and receive simultaneously. Though DL reception of multiple carriers doesn't require specific capability than RF bandwidth, UL transmission requires more tight capability on spectral mask shape. Thus, even for TDD AMS, DL and UL capability can be different. The field is defined for specific multicarrier combination.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC MC (multicarrier)

Editor's Notes

Editor's Actions b) none needed

Comment by:

Lei Wang

Membership Status:Date:Comment # A050Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 306 Line 22 Fig/Table# Subclause 16.2.8.1

I completely don't agree with the resolution given to comment #582 in 80216-10_0040r2. I don't think the reason given for "disagree" really address this comment. I re-submit this comment.

I think there is a problem with the mechanisms described in the paragraph in line 22 on page 304, i.e., transmitting an AAI_SCD message on an unpaired DL carrier to specify where in the primary UL carrier the feedback region is.

Note that the concept of primary carrier is per AMS, and different AMS may have different fully configured carriers as their primary carriers. If an unpaired DL carrier is activated for two AMSs, AMS-1 and AMS-2, and those two AMSs have different UL primary carriers, e.g., UL-fc1 and UL-fc2, respectively, then an AAI_SCD message transmitted on the unpaired DL carrier will be received by AMS-1 and AMS-2, but it means differently to the two AMSs, i.e., the same feedback region specification actually means on two regions on two different fully configured UL carriers. This will make fast feedback channel and HARQ feedback channel mapping very complicated.

One simple way to solve this problem is to put a constraint on the AMSs who can use an unpaired DL carrier for DL unicast traffic shall have the same UL primary carrier.

Suggested Remedy

Change the paragraph in line 22 on page 304 as follows:

If a partially configured carrier is used for DL unicast traffic, the required UL feedback channels are provided by the primary carrier. <ins> All the AMSs that uses the same DL-only secondary carrier for DL unicast traffic shall use the same fully configured UL carrier as primary UL carrier. </ins> In multicarrier aggregation, the UL control channels corresponding to the secondary partially configured carriers i.e., DL only secondary carriers shall be located in distinct non-overlapping control regions in the UL of the primary carrier. The UL control regions for the DL only secondary carriers are behind the UL control region for the primary carrier. The location information of the UL control channels for the DL only secondary carriers are informed through the AAI_SCD message which are transmitted on the secondary carriers. The AMS shall use the UL control channels on the primary carrier to feedback HARQ ACK/NACK and channel quality measurements corresponding to transmission over DL only secondary carrier. Only the FDD primary carriers may be used to provide UL feedback channels for DL partially configured carriers. A partially configured carrier may be optimized and used for E-MBS services only in which case it would not need UL feedback channel support on primary carrier.

GroupResolution**Decision of Group: Disagree****Reason for Group's Decision/Resolution**

For distributing control channels over multiple carriers, the region can be defined at different carriers. The primary carrier can be different for various AMSs.

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Lei Wang

Membership Status: Date:

Comment # A051

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 315 Line 15 Fig/Table# Subclause 16.2.8.2.9.2.2

One MC specific HO procedure allows the AMS performs network re-entry to the target ABS on one carrier and maintains normal communication with the serving ABS on another carrier. This seems a very good utilization of an AMS's capability of concurrently processing multiple radio carriers. However, the current spec limits the utilization of such an AMS's capability to HO related optimizations, including scanning and network re-entry. Such a limitation seems unnecessary, and there are some obvious benefits and advantages to allow an AMS with the capability of concurrently processing multiple radio carriers to connect to multiple ABSs for normal communications, e.g., connect to both a Femto ABS and an overlay Macro ABS simultaneously to get best service from both.

Suggested Remedy

make the following changes:

1. change the sentence in line 15 on page 315 as follows:

In this case, Disconnect_time should be long enough that network reentry procedure to target ABS can be completed prior to the expiration of Disconnect_time <ins> or the Disconnect_time should not be used. </ins>

2. change the paragraph in line 38 on page 316 as follows:

From AMS point of view, if network entry is completed (see 16.2.6), the AMS<ins>may </ins> shall stop communicating with the serving ABS. Then, the AMS may send UL data or BW-REQ message to the target ABS.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

It is too complicated for AMSs and ABSs to manage different data paths simultaneously.

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # **A052**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 318 Line 45 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. So, it shall not be duplicately used here.

Suggested Remedy

Change the equation number in line 45 on page 316 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 45 on page 316 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 operation

Editor's Notes

Editor's Actions e) instructions unclear

There is no equation on line 45 of page 316 in D7.

Comment by:

Lei Wang

Membership Status:Date:Comment # A053Document under Review: P802.16m/D7Ballot ID: sb_16m

<u>Comment</u>	<u>Type</u> Technical	<u>Part of Dis</u> <input checked="" type="checkbox"/>	<u>Satisfied</u> <input type="checkbox"/>	<u>Page</u> 320	<u>Line</u> 26	<u>Fig/Table#</u>	<u>Subclause</u> 16.2.8.2.11.2
----------------	-----------------------	--	---	-----------------	----------------	-------------------	--------------------------------

I don't agree with the reasons given to the comment resolution to comment #595 in 80216-10_0040r2.

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 Figure 422 and 423 have no means to handle such an error condition. Well, in the case of Figure 422, it actually causes disconnection of the AMS from the ABS, as there is no AAI_CM-IND message for triggering the actual primary carrier change.

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. in Figure 422 on page 321, add a line at the action time from AMS's T-carrier to ABS's T-carrier with the caption of "AAI_CM-IND";
2. change the paragraph in line 44 on page 320 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> may transmit data and control signal 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.

3. insert the following new paragraph in line 56 on page 320:

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.

GroupResolutionDecision of Group: Disagree

Reason for Group's Decision/Resolution

The proposed remedy is incomplete.

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # A054

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment **Type** Technical **Part of Dis** **Satisfied** **Page** 322 **Line** 36 **Fig/Table#** **Subclause** 16.2.8.2.11.3

Based on the current 16m/D6 spec, a lots of pieces about the carrier switching operation for the E-MBS, e.g., how, how long, what periodicity, what triggers for the carrier switching.It is not properly specified in the E-MBS section 16.9.2.1, nor in the DSA-REQ/RSP messages, nor MC scetion.

Suggested Remedy

Either complete the specification of the carrier switching operation or delete all relevant text / references.

GroupResolution

Decision of Group: Principle

Adopt the text proposed in C802.16m-10/1035r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # **A055**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 806 Line 16 Fig/Table# Subclause 16.4.5.1

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 16 on page 806 as follows:

For a Femto ABS that uses air interface connection with the overlaid Macro ABS for exchanging control messages , 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

To limit complexity and to avoid limiting the duplication of functionality of Relay and Femto.

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # **A056**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **14** Line **29** Fig/Table# Subclause **5.2.5.2**

what parameters do "the parameters" mean in the sentence in line 29 on page 14?

Suggested Remedy

either clarify "the parameters" or delete the sentence.

GroupResolution

Decision of Group: **Principle**

Resolved by comment #160.

Resolution:

P 14 L29:

For AMS and ABS, the <ins>Packet Classification Rule</ins> parameters <ins>(Table 740)</ins>may be used in IP classification rules.

Reason for Group's Decision/Resolution

Group's Notes

Clause 5, MAC: Service Specific CS

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # **A057**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **11** Line **45** Fig/Table# Subclause **5.2.1**

wrong implementation of the comment resolution for 16m/D6 comment #601 in 80216-10_0040r2, where it suggested to change ""Packet PDU" to "CS SDU". Note that it is "CS SDU", not "CS PDU".

Suggested Remedy

In line 45, page 11, Figure 8, change "CS PDU" to "CS SDU"

GroupResolution

Decision of Group: **Agree**

In line 45, page 11, Figure 8, change "CS PDU" to "CS SDU"

Reason for Group's Decision/Resolution

Group's Notes

Clause 5, MAC: Service Specific CS

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # **A058**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **14** Line **55** Fig/Table#

Subclause **5.2.6**

incomplete implementation of the comment resolution of the comment #602 in 80216-10_0040r2.

Suggested Remedy

in line 55, page 14, Figure 18b, change ""Packet" to "CS SDU"

GroupResolution

Decision of Group: **Agree**

in line 55, page 14, Figure 18b, change ""Packet" to "CS SDU"

Reason for Group's Decision/Resolution

Group's Notes

Clause 5, MAC: Service Specific CS

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # **A059**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **66** Line **24** Fig/Table# Subclause **16.2.3**

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.

Take an example, in Table 753 on page 217, in line 37, there is a comment that suggests the location of the "DL/UL indicator" field should be inside the for-loop. However, the same field in the new 16m table format, i.e., in Table 754, has no information about its location.

In order to properly specify the 16m MAC control messages, we strongly recommend using 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 16e-like pseudo-C code style tables.

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

this comment has no remedy

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # A060

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 414 Line 39

Fig/Table#

Subclause 16.2.20

typo

Suggested Remedy

Change "Table 16.2.3.8.1" to "subsection 16.2.3.8.1"

GroupResolution

Decision of Group: Agree

Change "Table 16.2.3.8.1" to "subsection 16.2.3.8.1"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.22, MAC: MAC Control Reliability

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # **A061**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **415** Line **59** Fig/Table# Subclause **16.2.20**

The sentence in line 59 on page 415 is not true, as Subsection 16.2.12 does not have any contents about how to determine whether a CLC class meets the CLC limits.

Suggested Remedy

delete the sentence in line 59 on page 415, i.e.,
The process of determining whether a CLC class meets the CLC limits for Type I, II, and III classes is specified in 16.2.12.

GroupResolution

Decision of Group: **Principle**

Resolved by comment #10128.

Resolution:

Modify texts as following :

The process of determining whether a CLC class meets the CLC limits for Type I, II, and III classes is specified in 16.2.12
<ins> 16.2.20.1, 16.2.20.2 and 16.2.20.3 respectively </ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.22, MAC: MAC Control Reliability

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Wang

Membership Status:

Date:

Comment # **A062**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 130 Line 10 Fig/Table# Subclause 16.2.3.16

In the definition of AAI_CLC-REQ as shown in Table 696, there are two variable-size optional fields, CLC request and CLC report; and each of those two optional fields has its own condition of presence. Then question is how the receiver of this message knows one or two optional fields is included, if one, then which one.

Such a message design/specification generates either ambiguities or even not-decodable messages, when there are multiple optional fields, for which there is not deterministic way to determine whether or not those optional fields are included in. For example, if the optional fields have completely different sizes, then the receiver can guess which one / ones included; however, if the optional fields have variable sizes and similar sizes to each other, then the receiver has no way to tell.

Again, in order to properly specify the 16m MAC control messages, we strongly recommend using the 16e-style pseudo c-code to specify the MAC control messages, which gives deterministic definition of MAC control messages

Suggested Remedy

discuss and adopt contribution C80216m-10_0989 or its latest version.

GroupResolution

Decision of Group: Principle

discuss and adopt contribution C80216m-10_0989r2

Reason for Group's Decision/Resolution

Re-opened during the commen session.

C802.16m-10/0989r2 was accepted by unanimous consent.

Suggested resolution is incomplete.

Vote:

In favor: 3

Opposed: 4

Abstain:

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; LMAC + Others

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Zhang Jing

Membership Status:

Date:

Comment # A063

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 312 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

The current draft standard does not have any function to utilize the information of partially configured carrier for handover execution.

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Zhang Jing

Membership Status:

Date:

Comment # **A064**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 87 Line 52 Fig/Table# Subclause 16.2.3.4

No need to repeat the length of the field. "1/2/3" is not a usual manner to specify a range.

Suggested Remedy

1/2/3(2bits; The number <ins>in the range 1 through 3 </ins>that is higher by 1 than this field and 4 is unavailable)

GroupResolution

Decision of Group: **Agree**

1/2/3(2bits; The number <ins>in the range 1 through 3 </ins>that is higher by 1 than this field and 4 is unavailable)

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Wei Ruan

Membership Status:

Date:

Comment # **A065**

Document under Review: **P802.16m/D7**

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

Apply 2009 IEEE Standards Style Manual(<http://standards.ieee.org/guides/style/>) , section 10.4. In particular:

- Update the introductory paragraph so that it reads: "The following referenced documents are indispensable for the application of this document (i.e., they must be understood and used, so each referenced document is cited in text and its relationship to this document is explained). For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments or corrigenda) applies."
- A footnote should be inserted in the text after the first cited normative reference in order to tell the reader where the references can be obtained. (section 10.4.3)
- For an example of a properly formatted normative references clause, see the sample draft in Annex B.

GroupResolution

Decision of Group: **Agree**

Apply 2009 IEEE Standards Style Manual(<http://standards.ieee.org/guides/style/>) , section 10.4. In particular:

- Update the introductory paragraph so that it reads: "The following referenced documents are indispensable for the application of this document (i.e., they must be understood and used, so each referenced document is cited in text and its relationship to this document is explained). For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments or corrigenda) applies."
- A footnote should be inserted in the text after the first cited normative reference in order to tell the reader where the references can be obtained. (section 10.4.3)
- For an example of a properly formatted normative references clause, see the sample draft in Annex B.

Reason for Group's Decision/Resolution

Group's Notes

Clause 2, General: Normative References

Editor's Notes

Editor's Actions b) none needed

This is an amendment. The text cited above is in Clause 2 of the baseline document.

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Wei Ruan

Membership Status:

Date:

Comment # **A066**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 90 Line 53 Fig/Table# Subclause 16.2.3.5

No need to repeat the length of the field. "1/2/3/4" is not a usual manner to specify a range.

Suggested Remedy

1/2/3/4(2bits; The number <ins>in the range 1 through 4</ins>that is higher by 1 than this field

GroupResolution

Decision of Group: Agree

1/2/3/4(2bits; The number <ins>in the range 1 through 4</ins>that is higher by 1 than this field

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Shih-Yuan Cheng

Membership Status:

Date:

Comment # A067

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 279 Line 39 Fig/Table# Subclause 16.2.6.1.2

The sentence has no period.
The AMS may use any unavailable interval to perform autonomous scanning

Suggested Remedy

The AMS may use any unavailable interval to perform autonomous scanning.

GroupResolution

Decision of Group: Agree

The AMS may use any unavailable interval to perform autonomous scanning.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Shih-Yuan Cheng

Membership Status:

Date:

Comment # A068

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 279 Line 42 Fig/Table# Subclause 16.2.6.1.2

A needless space at the end of the sentence.

An AMS shall be capable of performing intra-frequency preamble measurement without dedicated allocations for scanning .

Suggested Remedy

An AMS shall be capable of performing intra-frequency preamble measurement without dedicated allocations for scanning.

GroupResolution

Decision of Group: Agree

An AMS shall be capable of performing intra-frequency preamble measurement without dedicated allocations for scanning.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions a) done

Comment by: xu hengMembership Status:Date:Comment # A069Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 429 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>

GroupResolutionDecision of Group: DisagreeReason for Group's Decision/Resolution

proposed resolution remains ambiguous for implementation and operation.

vote: 8 for, 6 against, 0 abstain.

Group's Notes

Clause 16.2.23, MAC: Power Management for the Active Mode

Editor's NotesEditor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

xu heng

Membership Status:

Date:

Comment # **A070**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial

Part of Dis Satisfied

Page 73

Line 60

Fig/Table#

Subclause 16.2.3.1

T-ABS is a defined acronym. Use it consistently

Suggested Remedy

Replace all occurrences of "target ABS" with "T-ABS" except for the first one. Introduce the acronym by inserting "(T-ABS)" after the first occurrence of target ABS.

GroupResolution

Decision of Group: **Agree**

Replace all occurrences of "target ABS" with "T-ABS" except for the first one. Introduce the acronym by inserting "(T-ABS)" after the first occurrence of target ABS.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Zhang ling

Membership Status:

Date:

Comment # A071

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page Line Fig/Table# Subclause 16.2.3

Avoid underscores in MAC control message names. It is difficult to maintain consistency and makes searches for message names more complicated. Often an instance is missed in a search because an underscore has been replaced by a hyphen or vice versa. Furthermore, since MAC control messages are to be ASN.1 encoded, and the ASN.1 compiler does not support underscores, avoiding underscores will result in a more direct translation to ASN.1.

Suggested Remedy

Replace all underscores in the MAC control message names in section 16 with hyphens. For instance, replace AAI_RNG-REQ with AAI-RNG-REQ.

GroupResolution

Decision of Group: Agree

Replace all underscores in the MAC control message names in section 16 with hyphens. For instance, replace AAI_RNG-REQ with AAI-RNG-REQ.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Zhang ling

Membership Status:

Date:

Comment # A072

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 90 Line 18 Fig/Table# Subclause 16.2.3.5

No need to repeat the length of the field. "1/2" is not a usual manner to specify a range.

Suggested Remedy

Change: 1/2(1bits; The number<ins> in the range 1 through 2</ins> that is higher by 1 than this field

GroupResolution

Decision of Group: Agree

Change: 1/2(1bits; The number<ins> in the range 1 through 2</ins> that is higher by 1 than this field

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

Comment by: Ruqing Yang

Membership Status:

Date:

Comment # A073

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 813 Line 7 Fig/Table# Subclause 16.4.9

A manual femto ABS selection mode has been provided in the latest 16m draft D4. The white list of the MS may be updated in this mode. We want to give another white list update method when the MS in idle mode. According to the result of location update at the femto ABS, the AMS may updates its white list.

Reference(p793 in D6):

16.4.7.2 Manual Femto ABS Selection

Manual femto ABS selection enables a human user to select a femto ABS and override automatic selection. In manual femto ABS selection, the AMS may scan neighbor femto ABSs accessible to the AMS and reports the list of accessible femto ABS to the user. An AMS may attempt to access a femto ABS not contained in the CSG white list based on manual selection provided the access credentials can be obtained. Based on the result of the network entry at the femto ABS, the AMS's CSG white list may be updated.

Suggested Remedy

16.4.9 Idle Mode

Femto ABS shall support idle mode.

The Femto ABSs operate like macro ABSs in Idle mode.

An AMS with CSG white list shall not attach to an unsubscribed CSG-Closed Femto ABS in Idle mode.

A CSG-Closed Femto ABS should not broadcast paging for a non-member AMS.

<Begin Insert>An AMS with CSG white list may update the white list by manual operation in idle mode. The manual update operation enables a human user to select/input a femto ABS out of its white list to make a location update procedure. According to the result of location update at the femto ABS, the AMS may updates its white list. If the MS make a successful location update on the select/input femto ABS out of its white list, the MS may add the femto ABS into its white list.<End Insert>

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

During Manual Selection, network entry will be performed not location update which is already mentioned in the specification.

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Ruqing Yang

Membership Status:

Date:

Comment # **A074**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 87 Line 13 Fig/Table# Subclause 16.2.3.4

No need to repeat the length of the field. "1/2" is not a usual manner to specify a range.

Suggested Remedy

Change: 1/2(1bits; The number<ins> in the range 1 through 2</ins> that is higher by 1 than this field

GroupResolution

Decision of Group: Agree

Change: 1/2(1bits; The number<ins> in the range 1 through 2</ins> that is higher by 1 than this field

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

Same as A089

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

ou hua

Membership Status:

Date:

Comment # A075

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 343 Line 1 Fig/Table# Subclause 16.2.12.4

An AMS being in connected state seems to be synonymous with an AMS in Normal Operation mode.

Suggested Remedy

Use one or the other consistently throughout section 16. Since Normal Operation is used in the 802.16-2009, I have a preference for using Normal Operation. Connected State is a term of art and should be capitalized if retained.

GroupResolution

Decision of Group: Principle

0b10000. During the eCononnected sState, if a FID for the emergency service flow is not pre-defined, the ABS

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.12, MAC: Quality of Service (QoS)

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

ou hua

Membership Status:

Date:

Comment # **A076**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **107** Line **64** Fig/Table# Subclause **16.2.3.11**

S-ABS is not in the acronym list.

Suggested Remedy

Add S-ABS Serving ABS to the acronym list and replace all occurrences of serving ABS with S-ABS. Alternatively, do not use the acronym S-ABS at all

GroupResolution

Decision of Group: **Principle**

Editor to replace all occurrences of serving ABS with S-ABS.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Xin Chang

Membership Status:

Date:

Comment # A077

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 9 Line 1 Fig/Table# Subclause 4

RAID is not in the acronym list

Suggested Remedy

Add "RAID Random Access Identifier" to the acronym list in correct alphabetical position.

GroupResolution

Decision of Group: Principle

Replace RAID with RA-ID in the entire draft

Reason for Group's Decision/Resolution

Group's Notes

Clause 4, General: Abbreviations and acronyms

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Xin Chang

Membership Status:

Date:

Comment # **A078**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 90 Line 57 Fig/Table# Subclause 16.2.3.5

No need to repeat the length of the field. "1/2/3" is not a usual manner to specify a range.

Suggested Remedy

1/2/3(2bits; The number <ins>in the range 1 through 3 </ins>that is higher by 1 than this field and 4 is unavailable)

GroupResolution

Decision of Group: **Agree**

1/2/3(2bits; The number <ins>in the range 1 through 3 </ins>that is higher by 1 than this field and 4 is unavailable)

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

ZOU QING

Membership Status:

Date:

Comment # A079

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 45 Line 19 Fig/Table# Subclause 16.2.2.1.3

"Anonymously assigned UL resource" is not defined. (We know the BS assigns the resources, so how anonymous can that be?!) Also, the only MAC signaling header that may be transmitted in such an allocation is BR with STID. It is more appropriate to put this kind of information in the BR with STID section (i.e., 16.2.2.1.3.1)

Suggested Remedy

Remove: "If the AMS uses an anonymously assigned UL resource to send the signaling header, the AMS shall include the STID in the contents field of the signaling header."

On page 46, line 31, change: "When an AMS requests bandwidth through an ~~anonymous~~ UL resource allocated by the CDMA Allocation A-MAP IE, it shall transmit BR with STID signaling header on the ~~anonymous~~ allocated UL resource."

GroupResolution

Decision of Group: Agree

Remove: "If the AMS uses an anonymously assigned UL resource to send the signaling header, the AMS shall include the STID in the contents field of the signaling header."

On page 46, line 31, change:

"When an AMS requests bandwidth through an ~~anonymous~~ UL resource allocated by the CDMA Allocation A-MAP IE, it shall transmit BR with STID signaling header on the ~~anonymous~~ allocated UL resource."

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

ZOU QING

Membership Status:

Date:

Comment # **A080**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 90 Line 49 Fig/Table# Subclause 16.2.3.5

No need to repeat the length of the field. "1/2/4" is not a usual manner to specify a range.

Suggested Remedy

1/2/4(2bits; The number <ins>in the range {1, 2, 4} </ins>that is higher by 1 than this field and 3 is unavailable)

GroupResolution

Decision of Group: Agree

1/2/4(2bits; The number <ins>in the range {1, 2, 4} </ins>that is higher by 1 than this field and 3 is unavailable)

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chunmei Tang

Membership Status:

Date:

Comment # A081

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 311 Line 44 Fig/Table# Subclause 16.2.8.2.6.2

Partially configured carrier may be need to allocated UL feedback channel in primary carrier. Since AMS should be allocated resourec in partially configured carrier, CQI of partially configured carrier should be feedbacked to ABS.

Suggested Remedy

When only DL of fully configured carrier <Begin Insert> or partially carrier <End Insert> has been activated,

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

This paragraph is handling the case of DL only activated carrier of fully configured carriers. The feedback channel allocation for the partially configured carrier has been separately described in the next paragraph, 49~56 line, page 311.

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chunmei Tang

Membership Status:

Date:

Comment # A082

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 43 Line 34 Fig/Table# Subclause 16.2.1.2.4

Do not concatenate a number an a word without inserting a hyphen.

Suggested Remedy

Change: The network shall assign a 72<ins>-</ins>bit CRID

GroupResolution

Decision of Group: Agree

Change: The network shall assign a 72<ins>-</ins>bit CRID

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.1, MAC: Addressing

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yan Chaoyi

Membership Status:

Date:

Comment # **A083**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **311** Line **16** Fig/Table# Subclause **16.2.8.2.6.2**

Channel quality should be a factor to be considered for resource allocation.

Suggested Remedy

The ABS may allocate downlink or uplink resources which belong to a specific active carrier or a combination of multiple active carriers based on available resources, QoS requirements <Begin Insert> , channel quality <End Insert> and other factors.

GroupResolution

Decision of Group: **Agree**

The ABS may allocate downlink or uplink resources which belong to a specific active carrier or a combination of multiple active carriers based on available resources, QoS requirements <ins> , channel quality </ins> and other factors.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yan Chaoyi

Membership Status:

Date:

Comment # **A084**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 43 Line 28 Fig/Table# Subclause 16.2.1.2.3

Do not concatenate a number an a word without inserting a hyphen.

Suggested Remedy

Change: The network shall assign a 12<ins>-</ins>bit DID

GroupResolution

Decision of Group: Agree

Change: The network shall assign a 12<ins>-</ins>bit DID

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.1, MAC: Addressing

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Fan Guanghui

Membership Status:

Date:

Comment # **A085**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **14** Line **18** Fig/Table# Subclause **5.2.5.1**

The sentence is incomplete.

Suggested Remedy

The AMS and the ABS signal enabling of ROHC <ins> by setting bit 6 of Request/Transmission Policy to 0 in AAI_DSA-REQ

GroupResolution

Decision of Group: **Principle**

The AMS and the ABS signal enabling of ROHC <ins>by setting Bit 6 of Request/Transmission Policy to 0 in AAI_DSA-REQ</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 5, MAC: Service Specific CS

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jiang ying

Membership Status:

Date:

Comment # **A086**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **597** Line **56** Fig/Table# Subclause **16.3.5.5.2.4.7**

Several problems with sentence:

- 1)"standalone headers" should be MAC signaling headers
- 2) "messages" should be MAC control messages
- 3) messages and headers are not signaled using CDMA Allocation A-MAP IE.
- 4) CDMA Allocation A-MAP IE is never used in an UL allocation

Suggested Remedy

Change: "Other <ins>MAC control</ins> messages and standalone <ins>or MAC signaling</ins> headers shall not be <ins>transmitted in an UL allocation</ins> signaled using CDMA Allocation A-MAP IE in an UL allocation."

GroupResolution

Decision of Group: **Agree**

Change: "Other <ins>MAC control</ins> messages and standalone <ins>or MAC signaling</ins> headers shall not be <ins>transmitted in an UL allocation</ins> signaled using CDMA Allocation A-MAP IE in an UL allocation."

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jiang ying

Membership Status:

Date:

Comment # A087

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 114

Line 14

Fig/Table#

Subclause 16.2.3.12

Missing space

Suggested Remedy

Change "1bit" to "1 bit"

GroupResolution

Decision of Group: Agree

Change "1bit" to "1 bit"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

Comment by:

Jared Yang

Membership Status:Date:Comment # A088Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 813 Line 7 Fig/Table# Subclause 16.4.9

A manual femto ABS selection mode has been provided in the latest 16m draft D4. The white list of the MS may be updated in this mode. We want to give another white list update method when the MS in idle mode. According to the result of location update at the femto ABS, the AMS may updates its white list.

Reference(p793 in D6):

16.4.7.2 Manual Femto ABS Selection

Manual femto ABS selection enables a human user to select a femto ABS and override automatic selection. In manual femto ABS selection, the AMS may scan neighbor femto ABSs accessible to the AMS and reports the list of accessible femto ABS to the user. An AMS may attempt to access a femto ABS not contained in the CSG white list based on manual selection provided the access credentials can be obtained. Based on the result of the network entry at the femto ABS, the AMS's CSG white list may be updated.

Suggested Remedy

16.4.9 Idle Mode

Femto ABS shall support idle mode.

The Femto ABSs operate like macro ABSs in Idle mode.

An AMS with CSG white list shall not attach to an unsubscribed CSG-Closed Femto ABS in Idle mode.

A CSG-Closed Femto ABS should not broadcast paging for a non-member AMS.

<Begin Insert>An AMS with CSG white list may update the white list by manual operation in idle mode. The manual update operation enables a human user to select/input a femto ABS out of its white list to make a location update procedure. According to the result of location update at the femto ABS, the AMS may updates its white list. If the MS make a successful location update on the select/input femto ABS out of its white list, the MS may add the femto ABS into its white list.<End Insert>

GroupResolutionDecision of Group: Disagree

Reason for Group's Decision/Resolution

During Manual Selection, network entry will be performed not location update which is already mentioned in the specification.

Group's Notes

Clause 16.4, Other: Femto

Editor's NotesEditor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jared Yang

Membership Status:

Date:

Comment # A089

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 87 Line 13 Fig/Table# Subclause 16.2.3.4

No need to repeat the length of the field. "1/2" is not a usual manner to specify a range.

Suggested Remedy

Change: 1/2(1bits; The number<ins> in the range 1 through 2</ins> that is higher by 1 than this field

GroupResolution

Decision of Group: Agree

Change: 1/2(1bits; The number<ins> in the range 1 through 2</ins> that is higher by 1 than this field

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Song Qiwen

Membership Status:

Date:

Comment # **A090**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 109 Line 18 Fig/Table# Subclause 16.2.6.4.2.2

When the target base station is a legacy one, the Action Time could be used for the fast ranging procedure per the text in page 295 line 59 "the serving ABS may indicate the time of the fast ranging opportunity negotiated with the potential target R1 BSs in the AAI_HO-CMD message"

Suggested Remedy

<Note: change the description of Value/Note of the Action Time field:>

Mode=0b00 Action Time included in this message is the absolute frame number at the serving 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.

Mode=0b01 This value is defined as the frame number that AMS starts zone switch. Action Time included in this message is indicated by frame number

<Begin Insert>If the target BS is an R1 BS, this value is the 8 least significant bits of the absolute frame number which indicates the fast ranging opportunity for transmission of RNG-REQ at the target R1 BS. A value of zero indicates no opportunity to allocate Fast Ranging IE in the candidate target R1 BS.<End Insert>

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

Remedy is not clear. For mode0b01, the target BS is always R1. Furthermore, even if AMS performs CDMA ranging, the Action Time may indicate when to perform it.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions b) none needed

Comment by:

Xiuyan Li

Membership Status:Date:Comment # A091Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 109 Line 1 Fig/Table# Subclause 16.2.3.11

In AAI, the frame numbers are synchronized across BSs and there is no need to mention that the frame number is at the serving BS. When the target BS is a R1 BS, then one can reference the frame in at the T-BS by using the frame number at the serving ABS

Suggested Remedy

Change:: Mode=0b00 If the target BS is a R1 BS, then Action Time included in this message is the absolute frame number at the serving 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. <ins>If the target BS is a R1 BS, then Action Time is the absolute frame number at the serving ABS and indicates the frame at the T-BS where a fast ranging opportunity shall be allocated. Refer to section 6.3.21.2.4</ins>
Mode=0b01 This value is defined as the frame number that AMS starts zone switch. Action Time included in this message is indicated by frame number

GroupResolutionDecision of Group: DisagreeReason for Group's Decision/Resolution

CDMA_RNG_FLAG=1 implies ranging is required, therefore Fast ranging will not be coordinated by R1 BS.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's NotesEditor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Xiuyan Li

Membership Status:

Date:

Comment # A092

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 106

Line 33

Fig/Table#

Subclause 16.2.3.9

TABS is not in the acronym list.

Suggested Remedy

Replace TABS with T-ABS

GroupResolution

Decision of Group: Agree

Replace TABS with T-ABS

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

ke Zeng

Membership Status:

Date:

Comment # **A093**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 286 Line 32 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.

Suggested Remedy

adopted C80216m-10_0992.doc its latest version

GroupResolution

Decision of Group: Principle

[Editor's Note 1 : modify the text as following in page 286 line 19]

If all target ABSs included in the AAI_HO-CMD message are unreachable (as defined in this section) or if the AAI_HO-CMD message includes no target ABS, and if the AMS has a preferred target ABS it shall inform the serving ABS of its preferred target ABS by sending the AAI_HO-IND message with HO Event Code 0b001 prior to expiration of Disconnect Time. <ins>If the AMS has no preferred target ABS to include in the AAI_HO-IND message, it may perform HO cancellation as described in section 16.2.6.3.6.</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Junxian Mo

Membership Status:

Date:

Comment # **A094**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **241** Line **27** Fig/Table# Subclause **16.2521124**

Section 16.2.5.2.1.1.2.4 is normative. Consider adding an informative section about the processing of the AK_COUNT at the Authenticator in an informative annex, as has been done for the processing of the CMAC_KEY_COUNT at the authenticator (Annex N).

Suggested Remedy

Delete (informative) from the section title.

GroupResolution

Decision of Group: **Agree**

Delete (informative) from the section title.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Junxian Mo

Membership Status:

Date:

Comment # **A095**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 90 Line 14 Fig/Table# Subclause 16.2.3.5

No need to repeat the length of the field. "1/2/3/4/5/6/7/8" is not a usual manner to specify a range.

Suggested Remedy

Change: 1/2/3/4/5/6/7/8(3bits; The number<ins> in the range 1 through 8</ins> that is higher by 1 than this field

GroupResolution

Decision of Group: **Agree**

Change: 1/2/3/4/5/6/7/8(3bits; The number<ins> in the range 1 through 8</ins> that is higher by 1 than this field

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: tong jianfei

Membership Status:

Date:

Comment # A096

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 434 Line 1 Fig/Table# Subclause 16.2.26.1

If the AAI_HO-CMD is sent successfully, an AAI_HO-IND message may still be expected if AAI_HO-CMD has multiple candidates. So the description here is not strictly.

Suggested Remedy

In case of a HO, if the ABS identifies the AAI_HO_CMD message is successfully sent to the AMS<ins>HO excution procedure is ended at the action time</ins>, the ABS shall stop the coverage loss detection procedure (i.e. described in 16.2.26.2) for the AMS.

GroupResolution

Decision of Group: Principle

Accept the resolutions in contribution c80216m-10/1088.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.26, MAC: Coverage Detection and Recovery

Editor's Notes

Editor's Actions a) done

Comment by:

Libra Xiao

Membership Status:Date:Comment # **A097**Document under Review: **P802.16m/D7**Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 4 Line 2 Fig/Table# Subclause 3

Frame number is defined differently for WirelessMAN-OFDMA and AAI. In WirelessMAN-OFDMA, the frame number is a 24-bit value transmitted in the DL-MAP PHY Synchronization field. AAI uses a 12-bit superframe number (4 LSB are transmitted in the P-SFH IE and 8 MSB are transmitted in the S-SFH SP1 IE) and a 2 bit frame index which is implicitly defined (frames within a superframe have index 0 through 3 in the order of transmission). Frame number is not explicitly defined in AAI. Yet, the AAI specification uses the term frame number in many places.

Suggested Remedy

Add a definition for frame number as follows:

In WirelessMAN-OFDMA, the frame number is a 24-bit number transmitted in every frame. Frame numbers are not necessarily synchronized across base stations. In WirelessMAN-AAI, the frame number is obtained by concatenating the 12-bit superframe number (transmitted in every superframe) and the 2-bit frame index. Superframe numbers are synchronized across base stations.

On page 49, line 9, change: "Frame number ~~index~~ where ~~to be allocated~~ UL resources for Adaptation ACK/NACK shall be allocated~~on SSSCH~~

~~2 MSB: 2 LSBs of the super frame number index~~

~~2 LSB: frame number index"~~

On page 121, line 11, change: Recommended start frame ~~number~~index Represents recommended start frame ~~number~~index within a super frame.

On page 123, line 51, change: start frames ~~number~~index Represents recommended start frame ~~number~~index

On page 144, line 22, change frame number to frame index.

On page 588, line 37, change Frame_number to Frame index (3 occurrences)

On page 732, line 21, change t is frame number calculated as four times superframe number plus frame ~~number~~index within a superframe

On page 791, line 48, change frame number to frame index

GroupResolution**Decision of Group: Agree**

Add a definition for frame number as follows:

In WirelessMAN-OFDMA, the frame number is a 24-bit number transmitted in every frame. Frame numbers are not necessarily synchronized across base stations. In WirelessMAN-AAI, the frame number is obtained by concatenating the 12-bit superframe number (transmitted in every superframe) and the 2-bit frame index. Superframe numbers are synchronized across base stations.

On page 49, line 9, change: "Frame number ~~index~~ where ~~to be allocated~~ UL resources for Adaptation ACK/NACK shall be allocated~~on SSSCH~~

~~2 MSB: 2 LSBs of the super frame number index~~

~~2 LSB: frame number index"~~

On page 121, line 11, change: Recommended start frame number<ins>index</ins> Represents recommended start frame number<ins>index</ins> within a super frame.

On page 123, line 51, change: start frames number<ins>index</ins> Represents recommended start frame number<ins>index</ins>

On page 144, line 22, change frame number to frame index.

On page 588, line 37, change Frame_number to Frame index (3 occurrences)

On page 732, line 21, change t is frame number calculated as four times superframe number plus frame number<ins>index</ins> within a superframe

On page 791, line 48, change frame number to frame index

Reason for Group's Decision/Resolution

Group's Notes

Clause 3, General: Definitions

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Libra Xiao

Membership Status:

Date:

Comment # A098

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment **Type** Editorial **Part of Dis** **Satisfied** **Page** 87 **Line** 44 **Fig/Table#** **Subclause** 16.2.3.4

No need to repeat the length of the field. "1/2/4" is not a usual manner to specify a range.

Suggested Remedy

1/2/4(2bits; The number <ins>in the range {1, 2, 4} </ins>that is higher by 1 than this field and 3 is unavailable)

GroupResolution

Decision of Group: Agree

1/2/4(2bits; The number <ins>in the range {1, 2, 4} </ins>that is higher by 1 than this field and 3 is unavailable)

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

Comment by:

Zhao Wei

Membership Status:Date:Comment # **A099**Document under Review: **P802.16m/D7**Ballot ID: **sb_16m**

<u>Comment</u>	<u>Type</u> Technical	<u>Part of Dis</u> <input checked="" type="checkbox"/>	<u>Satisfied</u> <input type="checkbox"/>	<u>Page</u> 811	<u>Line</u> 33	<u>Fig/Table#</u>	<u>Subclause</u> 16.4.8.1.2
----------------	-----------------------	--	---	-----------------	----------------	-------------------	-----------------------------

- 1.The description of location information is not in proper place;
2. Give an example to clarify the usage of location information .

Suggested Remedy

16.4.8.1.2 AMS scanning of neighbor Femto ABSs

For neighbor Femto ABSs, an AMS performs the scanning procedure as per 16.2.6.1.2 with exceptions described in this subsection. An AMS may scan femto ABSs according to the FAs included in the broadcast AAI_NBR-ADV message. AMS may scan femto ABSs that are not included in AAI_NBR-ADV based on SA-preamble partitioning information (see 16.4.4). In addition, an AMS may scan allowed femto ABSs based on the CSG White List.,<ins>which may include absolute/relative location information of CSG Femto ABS, such as GPS info, overlay Macro ABS BSID.</ins> Based on location information, AMS may initiate the scanning procedure (See 16.2.6.1.2).The location information may include absolute/relative location information of CSG Femto ABS, such as GPS info, overlay Macro ABS BSID. <ins>For example, AMS may initiate the scanning when the distance between the AMS and CSG Femto ABS is less than a pre-defined threshold or the AMS detects the overlay Macro ABS.</ins> The AMS may request additional scanning opportunity by sending AAI-SCN-REQ including the detected SA-preamble index and FA information. Upon reception of the AAI_SCN-REQ, the ABS shall respond with an AAI_SCN-RSP which may include neighbor accessible Femto ABS list based on the SA-preamble index.

GroupResolutionDecision of Group: **Disagree**Reason for Group's Decision/Resolution

It is Implementation Issue. Standard does not defines the 'pre-defined' criteria that is mentioned.

Group's Notes

Clause 16.4, Other: Femto

Editor's NotesEditor's Actions b) none needed

Comment by: Mingxia Xu

Membership Status:

Date:

Comment # A100

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 154 Line 16 Fig/Table# Subclause 16.2.3.26

What does the sentence "The AAI_TRF-IND may include the following parameters at end of AAI_SLP-REQ message." mean??
SLPID_Update field may be included in AAI_TRF-IND. Such a field shall be added to the message filed description in table 710.

Suggested Remedy

The AAI_TRF-IND may include the following parameters at end of AAI_SLP-REQ message.

[Note: Add the following description of SLPID_Update field an the end of AAI_TRF-IND]

<ins>

M/O:O

Attributes / Array of attributes: SLPID_Update

Size(bits): 20*M

Value/Note: M is the number of SLPIDs needed to be updated. For each 20 bits SLPID_update pair, the first 10 bits indicates old SLPID and the second 10 bits indicates new SLPID.

Conditions: When there is one or more SLPIDs needed to be updated.

</ins>

GroupResolution

Decision of Group: Principle

[Modify the table 710 on page 153, line 37, as follows;]

Table 710—Parameters for AAI_TRF-IND

..
M	SLPID	10	Each SLPID is used to indicate the positive traffic indication for an AMS	0~1023	When FRMT ==1
<u>O</u>	<u>SLPID_Update</u>	<u>20*N</u>	<u>For each 20 bits, the first 10 bits indicates old SLPID and the second 10 bits indicates new SLPID</u>	<u>N = the number of SLPIDs to be updated (1..1024)</u>	<u>When FRMT ==1</u>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: xia yang

Membership Status:

Date:

Comment # **A101**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 385 Line 54 Fig/Table# Subclause 16.2.5

The unsolicited UL bandwidth granted is for the BR header. The description here is not correct.

Suggested Remedy

During network entry, an ABS may allocate an UL bandwidth for transmission or retransmission of MAC messages, the size of BR without STID header, without a contention-based bandwidth request from the AMS by setting the Unsolicited bandwidth grant indicator in an AAI_RNG-RSP message to the AMS. If the unsolicited bandwidth indicator is enabled, the ABS should allocate UL bandwidth within the BR grant time duration in order to transmit or retransmit subsequent MAC messages <ins>for transmsion or retransmission of the BR without STID header</ins>during network entry.

GroupResolution

Decision of Group: **Agree**

During network entry, an ABS may allocate an UL bandwidth for transmission or retransmission of MAC messages, the size of BR without STID header, without a contention-based bandwidth request from the AMS by setting the Unsolicited bandwidth grant indicator in an AAI_RNG-RSP message to the AMS. If the unsolicited bandwidth indicator is enabled, the ABS should allocate UL bandwidth within the BR grant time duration in order to transmit or retransmit subsequent MAC messages <ins>for transmsion or retransmission of the BR without STID header</ins>during network entry.

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:

Gongyi Xia

Membership Status:Date:Comment # **A102**Document under Review: **P802.16m/D7**Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 386 Line 5 Fig/Table# Subclause 16.2.5

It seems that the BR grant timer is only useful when the ABS sets the Unsolicited bandwidth grant indicator in an AAI_RNG-RSP message. The starting position of this timer seems not correct. When the ABS receives a MAC message, it shall make a response first. Why shall this timer be started before the response message is sent??

Suggested Remedy

Replace the following:

The BR grant timer in ABS is started upon ABS receiving MAC messages from AMS during network entry. The AMS also starts the BR grant timer when it receives the MAC messages from ABS successfully.

As:

The BR grant timer in ABS is started when the ABS transmits the AAI_RNG-RSP message with the unsolicited bandwidth grant indicator set to 1 to the AMS and restarted when the ABS transmits an MAC message in the subsequent network entry procedure. The BR grant timer in AMS is started when the AMS receives the AAI_RNG-RSP message with the unsolicited bandwidth grant indicator set to 1 sent to it and restarted when the AMS receives an MAC message in the subsequent network entry procedure.

GroupResolutionDecision of Group: **Agree**

Replace the following:

The BR grant timer in ABS is started upon ABS receiving MAC messages from AMS during network entry. The AMS also starts the BR grant timer when it receives the MAC messages from ABS successfully.

As:

The BR grant timer in ABS is started when the ABS transmits the AAI_RNG-RSP message with the unsolicited bandwidth grant indicator set to 1 to the AMS and restarted when the ABS transmits an MAC message in the subsequent network entry procedure. The BR grant timer in AMS is started when the AMS receives the AAI_RNG-RSP message with the unsolicited bandwidth grant indicator set to 1 sent to it and restarted when the AMS receives an MAC message in the subsequent network entry procedure.

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.15, MAC: Network Entry and Initialization

Editor's NotesEditor's Actions a) done

Comment by:

Tao Qian

Membership Status:Date:Comment # A103Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 400 Line 49 Fig/Table# Subclause 16.2.8

The primary paging group is the one with the smallest offset per the description in the next paragraph starting from line54. The description about definition of primary paging group here doesn't make any sense. The definition of primary paging offset and secondary paging offsets is suggested to be moved to the next paragraph

Suggested Remedy

When an AMS is assigned to more than one paging groups, one of the AMS's paging groups is called the primary paging group and rest of the paging groups are called secondary paging groups. ~~When an AMS is assigned to one paging group, the paging group is considered as a primary paging group. The paging offset associated with the primary paging group is called the primary paging offset, while the paging offsets associated with secondary paging groups are called secondary paging offsets.~~

When the AMS is assigned to multiple paging groups with the same paging cycle and different paging offsets, the primary paging group is the one with the smallest offset. The paging offset associated with the primary paging group is called the primary paging offset, while the paging offsets associated with secondary paging groups are called secondary paging offsets. The time difference between two adjacent paging offsets should be long enough so that the ABS can (i) send a paging message to the AMS in the primary paging offset within the paging cycle, (ii) when the AMS is in the primary paging group, receive a response to the paging message by the AMS before the secondary paging offset, and (iii) retransmit the paging message to the AMS at the secondary offset within the same paging cycle only if a response to the paging message in the primary paging offset is not received.

GroupResolutionDecision of Group: Agree

When an AMS is assigned to more than one paging groups, one of the AMS's paging groups is called the primary paging group and rest of the paging groups are called secondary paging groups. ~~When an AMS is assigned to one paging group, the paging group is considered as a primary paging group. The paging offset associated with the primary paging group is called the primary paging offset, while the paging offsets associated with secondary paging groups are called secondary paging offsets.~~

When the AMS is assigned to multiple paging groups with the same paging cycle and different paging offsets, the primary paging group is the one with the smallest offset. The paging offset associated with the primary paging group is called the primary paging offset, while the paging offsets associated with secondary paging groups are called secondary paging offsets. The time difference between two adjacent paging offsets should be long enough so that the ABS can (i) send a paging message to the AMS in the primary paging offset within the paging cycle, (ii) when the AMS is in the primary paging group, receive a response to the paging message by the AMS before the secondary paging offset, and (iii) retransmit the paging message to the AMS at the secondary offset within the same paging cycle only if a response to the paging message in the primary paging offset is not received.

Reason for Group's Decision/ResolutionGroup's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Yingming Wang

Membership Status:

Date:

Comment # A104

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 400 Line 55 Fig/Table# Subclause 16.2.8

The AMS may only be within one or more secondary paging groups. The description here shall be changed to be also suitable for this case.

Suggested Remedy

When the AMS is assigned to multiple paging groups with the same paging cycle and different paging offsets, the primary paging group is the one with the smallest offset. The time difference between two adjacent paging offsets should be long enough so that the ABS can (i) send a paging message to the AMS in the primary paging offset within the paging cycle, (ii) when the AMS is in the primary paging group, receive a response to the paging message by the AMS before the secondary paging offset, and (iii) retransmit the paging message to the AMS at the secondary offset within the same paging cycle only if a response to the paging message in the primary paging offset is not received. <ins> (i) sends a paging message to the AMS in the smallest paging offset of one or more the paging groups the AMS is current within,(ii)receives a response to the paging message by the AMS before the next paging offset if exists; (iii)retransmits the paging message to the AMS at the next adjacent paging offset if exists only if a response to the paging message is not received before the next adjacent paging offset.</ins>

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

proposed remedy leads to ambiguities at the ABS regarding which paging group where the AMS is. Thus leads to additional overhead.

Group's Notes

Clause 16.2.18, MAC: Idle Mode

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

YANG shaochun

Membership Status:

Date:

Comment # **A105**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 556 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 GW is deployed in 16m network, 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 both legacy ASN and advanced ASN or advanced ASN only. This capability should inform the ASN network for the purpose of connection mode selection or handover decision.

Suggested Remedy

Adopted C80216m-10_0757r1.doc or its latest version

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

A scenario should be clarified first whether parts of ASN-GWs are not upgraded while others are upgraded. In addition, from an ABS perspective, it does not seem to be connected with two different ASN-GWs at the same time.

Advanced ASN should be backward compatible. Therefore, S-SFH Network Configuration bit set to 0 covers this mixed deployment scenario without additional definition.

Group's Notes

MAC: legacy ASN

Editor's Notes

Editor's Actions b) none needed

Comment by: Dongmei FangMembership Status:Date:Comment # A106Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 311 Line 49 Fig/Table# Subclause 16.2.8.2.8

Partially configured carrier may be need to allocated UL feedback channel in primary carrier.

Suggested Remedy

In multicarrier aggregation with DL-only secondary partially configured carrier, the ABS directs the AMS to report CINRs of active DL-only secondary carriers through FastFeedback channel(s) on the primary carrier at the feedback region. The feedback region is indicated using the physical carrier index for the primary carrier, the start DLRU index for feedback channel, the number of DLRUs for feedback channel and the number of HARQ feedback channel per HARQ feedback region in the AAI_SCD message that is transmitted on the active DL-only secondary <Begin Insert> partially <End Insert> carrier as defined in 16.3.8.3.3. The feedback region of the active DL-only secondary <Begin Insert> partially <End Insert> carrier follows the feedback region of the primary carrier.

GroupResolutionDecision of Group: Principle

Modify the text (line 49, page 311) as follows:

In multicarrier aggregation with DL-only secondary partially configured carrier, the ABS directs the AMS to report CINRs of active DL-only secondary carriers through FastFeedback channel(s) on the primary carrier at the feedback region. The feedback region is indicated using the physical carrier index for the primary carrier, the start DLRU index for feedback channel, the number of DLRUs for feedback channel and the number of HARQ feedback channel per HARQ feedback region in the AAI_SCD message that is transmitted on the active DL-only secondary <ins> partially configured </ins> carrier as defined in 16.3.8.3.3. The feedback region of the active DL-only secondary <ins> partially configured </ins> carrier follows the feedback region of the primary carrier.

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's NotesEditor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Dongmei Fang

Membership Status:

Date:

Comment # A107

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 54 Line 54 Fig/Table# Subclause 16.2.2.1.3.8

Do not concatenate a number an a word without inserting a hyphen.

Suggested Remedy

Change: 'STC rate - 1' mapped to <ins>a </ins>3<ins>-</ins>bit unsigned integer (i.e., STC rate=1 as 0b000 ~<ins>,</ins> STC rate=8 as 0b111)

GroupResolution

Decision of Group: Agree

Change: 'STC rate - 1' mapped to <ins>a </ins>3<ins>-</ins>bit unsigned integer (i.e., STC rate=1 as 0b000 ~<ins>,</ins> STC rate=8 as 0b111)

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

feng shengrong

Membership Status:

Date:

Comment # **A108**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 152 Line 21 Fig/Table# Subclause 16.2.3.26

The description is not clear enough how the AAI_TRF-IND message will be transmitted. We propose that the indication message shall be transmitted in the first listening window.

Suggested Remedy

This message, when present, is <ins>shall be</ins> sent from the ABS to the AMSs. The message is <ins>shall be</ins> sent in the first frame of AMS' Listening Window....

GroupResolution

Decision of Group: **Agree**

This message, when present, is <ins>shall be</ins> sent from the ABS to the AMSs. The message is <ins>shall be</ins> sent in the first frame of AMS' Listening Window....

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jie Zhao

Membership Status:

Date:

Comment # **A109**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 312 Line 19 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 partially 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

The current draft standard does not have any function to utilize the information of partially configured carreri for handover execution.

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jie Zhao

Membership Status:

Date:

Comment # **A110**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 87 Line 48 Fig/Table# Subclause 16.2.3.4

No need to repeat the length of the field. "1/2/3/4" is not a usual manner to specify a range.

Suggested Remedy

1/2/3/4(2bits; The number <ins>in the range 1 through 4</ins>that is higher by 1 than this field

GroupResolution

Decision of Group: Agree

1/2/3/4(2bits; The number <ins>in the range 1 through 4</ins>that is higher by 1 than this field

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: bao chao

Membership Status:

Date:

Comment # A111

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 395 Line 38 Fig/Table# Subclause 16.2.17.2.3.1

The listen window may be terminated explicitly by SCH and

It is unpredictable whether at least one MAC PDU can be sent in the listening window, except that the ABS can pre-schedule the resource for the AMS before the listening window.

Suggested Remedy

If the AMS receives a positive traffic indication, it shall wait in the rest of Listening Window for unicast data <ins>unless the listening window is terminated explicitly by SCH</ins>. If the ABS sends a positive indication to a specific AMS, the ABS shall transmit at least one DL MAC PDU to the AMS during the AMS's Listening Window <ins> or send SCH to terminate the listening window during the listening window if no MAC PDU can be sent to the AMS</ins>.

GroupResolution

Decision of Group: Principle

If the AMS receives a positive traffic indication, it shall wait in the rest of Listening Window for unicast data <ins>unless the listening window is terminated explicitly by SCH</ins>.

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:

Wang Bo

Membership Status:Date:Comment # **A112**Document under Review: **P802.16m/D7**Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 387 Line 61 Fig/Table# Subclause 16.2.15.3

If the status of ranging ack is ABORT, the AAI_RNG-ACK may also provide the ranging abort timer to reject the AMS for a period of time. But according to the current message definitions, the ranging abort timer is only provided in AAI_RNG-RSP. We propose to add it to the AAI_RNG-ACK too.

Suggested Remedy

[Note 1: Add the following description after line 61 in page 387]

<ins>

- Upon receiving an Abort status notification, the AMS shall start the ranging abort timer and abort the ranging process until the ranging abort timer expires.

</ins>

[Note 2: Add the following field description after Ranging Status field in line 23 in page 84]

<ins>

M/O: O

Attributes / Array of attributes: Ranging Abort Timer

Size(bits): 16

Value/Note: Timer defined by an ABS to prohibit the AMS from attempting network entry at this ABS, for a specific time duration.

Value: 0 (Do not try ranging again at the ABS.)

Value: 1-65535, In units of seconds

Conditions: It shall be included for each received ranging preamble code index when Ranging status is 0b01.

Or it shall be included for the specific user when Ranging status is 0b01 and the AAI_RNG-ACK message is transmitted in a DL resource allocated by DL basic assignment A-MAP IE.

</ins>

GroupResolutionDecision of Group: **Agree**

[Note 1: Add the following description after line 61 in page 387]

<ins>

- Upon receiving an Abort status notification, the AMS shall start the ranging abort timer and abort the ranging process until the ranging abort timer expires.

</ins>

[Note 2: Add the following field description after Ranging Status field in line 23 in page 84]

<ins>

M/O: O

Attributes / Array of attributes: Ranging Abort Timer

Size(bits): 16

Value/Note: Timer defined by an ABS to prohibit the AMS from attempting network entry at this ABS, for a specific time duration.

Value: 0 (Do not try ranging again at the ABS.)

Value: 1-65535, In units of seconds

Conditions: It shall be included for each received ranging preamble code index when Ranging status is 0b01.

Or it shall be included for the specific user when Ranging status is 0b01 and the AAI_RNG-ACK message is transmitted in a DL resource allocated by DL basic assignment A-MAP IE.

</ins>

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Li Li

Membership Status:

Date:

Comment # A113

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 301 Line 56 Fig/Table# Subclause 16.2652123

Why does the sleep interval may be negotiated if the AMS wants to perform handover scanning and measurement? The scanning interval is enough and the sleep interval is much more complex to be maintained.

Suggested Remedy

8)In the single radio case, the AMS negotiates with the AAI ABS about scan/sleep intervals so that it can evaluate the link connections at target RATs.

Page 301Line 8 Figure 414

negotiate scan/sleep interval with

GroupResolution

Decision of Group: Agree

In page 301, line 56, modify the following sentence:

8)In the single radio case, the AMS negotiates with the AAI ABS about scan/sleep intervals so that it can evaluate the link connections at target RATs.

Page 301Line 8 Figure 414

negotiate scan/sleep interval with

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: xiaoling xiao

Membership Status:

Date:

Comment # A114

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 279 Line 26 Fig/Table# Subclause 16.2.6.1.1

There is no load information included in AAI_NBR-ADV message yet. As the network entry admission is finally decided by the base station, I think it is not nessary to broadcast such a information

Suggested Remedy

The AAI_NBR-ADV message may include parameters required for cell selection e.g., cell load and cell type.

GroupResolution

Decision of Group: Agree

In page 279, line 26, modify the following sentence:

"The AAI_NBR-ADV message may include parameters required for cell selection e.g., cell load and cell type."

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Xuehuan Wang

Membership Status:

Date:

Comment # A115

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 13 Line 13 Fig/Table# Subclause 5.2.3.1

It is not clear what "the PHSV is set" means. If the PHSV is not present, it has the same default meaning as the PHSV is set to 0

Suggested Remedy

If PHSV is set <ins> to 0 </ins> or not present, the SS shall.

GroupResolution

Decision of Group: Principle

P13 L35:

If PHSV is set <ins> to 0 </ins> or not present, the SS shall.

P13 L55:

If PHSV is set <ins> to 0 </ins> or not present, the SS shall.

Reason for Group's Decision/Resolution

Group's Notes

Clause 5, MAC: Service Specific CS

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jia Lin

Membership Status:

Date:

Comment # **A116**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 282 Line 35 Fig/Table# Subclause 16.2.6.2

In Multicarrier Scenario, an AMS may use multiple carriers for data transmission. When an AMS scans the carriers of the Serving ABS and Neighbor ABSs, it may trigger the actions such as "respond on trigger with AAI_SCN-REP". Since the AMS communicates with the ABS on multiple carriers, if AMS find there are other carriers of Neighbor ABS or Serving ABS satisfying trigger functions, it is possible that AMS is triggered to report these conditions.

Suggested Remedy

Adopted C80216m-10_0999 or its latest version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The proposed metric is not a fair metric for handover.

Vote:

In favor: 1

Opposed: 3

Abstain:

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jia Lin

Membership Status:

Date:

Comment # **A117**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **75** Line **15** Fig/Table# Subclause **16.2.3.1**

Paging Carrier update in Idle mode for multicarrier has been defined in IEEE P802.16m/D7. For cleanup its impacts in related sections of IEEE P802.16m/D7, a few modifications should be added into section 16.2.8.2.10.2 and Table 679.

Suggested Remedy

Adopted C80216m-10_0993 or its latest version.

GroupResolution

Decision of Group: **Principle**

Adopted C80216m-10_0993r2

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jia Lin

Membership Status:

Date:

Comment # A118

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 87

Line 9

Fig/Table#

Subclause 16.2.3.4

No need to repeat the length of the field. "1/2/3/4/5/6/7/8" is not a usual manner to specify a range.

Suggested Remedy

Change: 1/2/3/4/5/6/7/8(3bits; The number<ins> in the range 1 through 8</ins> that is higher by 1 than this field

GroupResolution

Decision of Group: Agree

Change: 1/2/3/4/5/6/7/8(3bits; The number<ins> in the range 1 through 8</ins> that is higher by 1 than this field

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yu-Min Chiu

Membership Status:

Date:

Comment # **A119**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **46** Line **17** Fig/Table# Subclause **16.2.2.1.3**

I am not satisfied with the resolution to comment #15 in 80216-10_0040r2.

The AMS battery level report mechanism is missing in the current D7. It is required for the ABS and AMS to negotiate the battery report capacity. Then the AMS transmits the battery level report header according to the negotiated behavior.

Suggested Remedy

Adopt the proposed text modifications in C802.16m-10/0996 or its latest version.

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

The benefit of periodic battery level report is not clear.

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yu-Min Chiu

Membership Status:

Date:

Comment # **A120**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **93** Line **27** Fig/Table# Subclause **16.2.3.6**

I am not satisfied with the resolution to comment #10 in 80216-10_0040r2.

In D7, it is said that "Femto ABS may disable some of its subframes and announce the disabled subframes via AAI_SON-ADV." However, the details are missing; there is no such parameter in the AAI_SON-ADV enabling this function.

Suggested Remedy

Adopt the proposed text modifications in C802.16m-10/0997 or its latest version.

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

The frame configuration index in SP3 is used for this. Also, the mapping of the Disabled frame index is not provided.

Vote:

In favor: 7

Opposed: 6

Abstain:

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; LMAC + Others

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yu-Min Chiu

Membership Status:

Date:

Comment # A121

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 74 Line 53 Fig/Table# Subclause 16.2.3.1

The lengths of paging offset are inconsistent in D7. We suggest making the length of paging offset equal to 9 bits through the whole document.

Suggested Remedy

Adopt the proposed text modifications in C802.16m-10/0998 or its latest version.

GroupResolution

Decision of Group: Principle

Adopt the proposed text modifications in C802.16m-10/0998r1

Reason for Group's Decision/Resolution

Vote:

In favor: 31

Opposed: 1

Abstain: 0

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Yanfeng Guan

Membership Status:

Date:

Comment # A122

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 565 Line 17 Fig/Table# Subclause 16.3.5.5.2.3

In 16m session#68, the text related to Power Control A-MAP IE has been modified, but some confusing problems exist all the same. For example, 1) the number of HARQ regions in a UL AAI subframe is not considered by the proposed PC A-MAP text in D7; 2) the notes of "UL_FEEDBACK_SIZE" field in S-SFH SP3 is ambiguous; 3) the "Power control channel resource size indicator" field in S-SFH SP1 is not necessary.

Therefore, some proposals should be provided to clear the text related to the above aspects.

Suggested Remedy

Please adopt the text proposal in IEEE C802.16m-10/0984 or its latest revision.

GroupResolution

Decision of Group: Principle

Please adopt the text proposal in IEEE C802.16m-10/0984r3.

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hyunjeong Kang

Membership Status:

Date:

Comment # A123

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 338 Line 55 Fig/Table# Subclause 16.2.12.2

Vertical markets will need specific profiling (think of airport communication, smart grid, M2M). It is not appropriate to mandate each and every scheduling service for every profile that will be ever developed. Such decisions should best be left to a profiling activity.

Suggested Remedy

[Delete the sentences in page 338, line 55 in D7 as follows:] The AMS and the ABS shall support the scheduling services described in 6.3.5. The AMS and the ABS shall support adaptation of service flow (SF) QoS parameters.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

deletion of the requirement leaves the standard ambiguous.

vote: 5 for, 7 against, 0 abstain

Group's Notes

Clause 16.2.12, MAC: Quality of Service (QoS)

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hyunjeong Kang

Membership Status:

Date:

Comment # A124

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 286 Line 18 Fig/Table# Subclause 16.2.6.3.4

Although current D7 mandates to send the AAI_HO-IND message 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. Hence, to send the AAI_HO-IND message should be a recommended procedure, not a required procedure.

Suggested Remedy

[Modify the sentence in page 286, line 18 in D7 as follows:] If all target ABSs included in the AAI_HO-CMD message are unreachable (as defined in this section) or if the AAI_HO-CMD message includes no target ABS, and if the AMS has a preferred target ABS it shall<ins>should</ins> inform the serving ABS of its preferred target ABS by sending the AAI_HO-IND message with HO Event Code 0b001 prior to expiration of Disconnect Time.

GroupResolution

Decision of Group: Principle

Resolved by comment #124.

Resolution:

[Editor's Note 1 : modify the text as following in page 286 line 19]

If all target ABSs included in the AAI_HO-CMD message are unreachable (as defined in this section) or if the AAI_HO-CMD message includes no target ABS, and if the AMS has a preferred target ABS it shall inform the serving ABS of its preferred target ABS by sending the AAI_HO-IND message with HO Event Code 0b001 prior to expiration of Disconnect Time. <ins>If the AMS has no preferred target ABS to include in the AAI_HO-IND message, it may perform HO cancellation as described in section 16.2.6.3.6.</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hyunjeong Kang

Membership Status:

Date:

Comment # A125

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 435 Line 22 Fig/Table# Subclause 16.2.28

The Multicast service supported in single ABS can be utilized in transmitting a message to multiple users belonged to a group. Multicast transmission for group consumes less traffic resources than unicast transmission for each user in a group. Multicast service can also be used in group call. In communication network for public protection and disaster relief (PPDR), group call is considered as a key feature to send an order to multiple users and communicate with users in emergency circumstance. Since more than thousands of users can be joined in group call, unicast transmission for group call traffic seems to be inefficient and sometimes impossible in 16m systems. E-MBS may support multicast service, but it is not appropriate to use in non-periodic multicast traffic. E-MBS operates in E-MBS region where E-MBS MAP and E-MBS bursts are transmitted based on E-MBS scheduling interval (MSI). To update the E-MBS region by using AAI_E-MBS-CFG message, it takes longer than 16 superframes. So, E-MBS is not efficient to transmit non-periodic multicast traffic. Hence, we propose an efficient multicast transmission method for non-periodic multicast traffics in IEEE 802.16m. Here is summary.

- a) Multicast Service section is added to define the general Multicast operation, Multicast connection establishment, and multicast operation in connected state
- b) AAI_RNG_RSP messages are modified to update Multicast Group IDs and FIDs in handover to the target ABS.
- c) AAI_DSA-REQ/RSP messages are modified to assign Multicast Group IDs.
- d) AAI_DSC-REQ message are modified to change Multicast Group IDs.

Suggested Remedy

Adopt the proposed text in contribution C802.16m-10/1010 or its later version.

GroupResolution

Decision of Group: Principle

Adopt the proposed text in contribution C802.16m-10/1010r7

Reason for Group's Decision/Resolution

vote: 26 for, 4 against, 1 abstain

Group's Notes

Clause 16.2.28, MAC: NEW Mutlicast Group Transmission

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hyunjeong Kang

Membership Status:

Date:

Comment # A126

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 74 Line 53 Fig/Table# Subclause 16.2.3.1

The bit length of Paging offset should be 12bit.

Suggested Remedy

[Modify Size (bits) for Paging Offset in page 74, line 53 as follows:] 6<ins>12</ins>

GroupResolution

Decision of Group: Principle

Resolved by comment #121.

Resolution:

Adopt the proposed text modifications in C802.16m-10/0998r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions b) none needed

Comment by: Hyunjeong KangMembership Status:Date:Comment # A127Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 79 Line 5 Fig/Table# Subclause 16.2.3.2

An AMS may request to change its paging carrier through Paging Carrier update parameter in an AAI_RNG-REQ message and the requested carrier shall be used as a paging carrier for the AMS. If a different carrier from the requested carrier is provided in the AAI_RNG-RSP message and the provided carrier is unavailable for the AMS, then it is useless to perform location update for the paging carrier. Therefore it is proposed to delete Paging carrier information in an AAI_RNG-RSP message.

Suggested Remedy

[Adopt the following changes in page 79, line 5:] O | Paging carrier information | 6 | physical carrier index | It may be included only if the Location Update Response is set to 0x00(Success of Idle Mode Location Update)

GroupResolutionDecision of Group: Agree

[Adopt the following changes in page 79, line 5:] O | Paging carrier information | 6 | physical carrier index | It may be included only if the Location Update Response is set to 0x00(Success of Idle Mode Location Update)

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's NotesEditor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hyunjeong Kang

Membership Status:

Date:

Comment # A128

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 138 Line 36 Fig/Table# Subclause 16.2.3.20

A parameter Idle Mode Retain Information element in AAI_DREG-REQ/RSP is presented as a bitmap whose length is 5. The Size (bits) of the parameter should be changed as 5.

Suggested Remedy

- 1)[Modify Size(bits) column of Idle Mode Retain Information element in page 138, line 36 (table 704) as follows:] 4 <ins> 5 </ins>
- 2)[Modify Size (bits) column of Idle Mode Retain Information element in page 142, line 7 (table 705) as follows:] 4 <ins> 5 </ins>

GroupResolution

Decision of Group: Agree

- 1)[Modify Size(bits) column of Idle Mode Retain Information element in page 138, line 36 (table 704) as follows:] 4 <ins> 5 </ins>
- 2)[Modify Size (bits) column of Idle Mode Retain Information element in page 142, line 7 (table 705) as follows:] 4 <ins> 5 </ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Rongzhen Yang

Membership Status:

Date:

Comment # A129

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 224 Line 35 Fig/Table# Subclause 16.2.3.56

UipcControlChannelSet is missed

Suggested Remedy

* dataSinrMax
<ins> * UipcControlChannelSet </ins>
* targetHarqSinr

GroupResolution

Decision of Group: Agree

Modify the text, line 35, page 224, as follow:

* dataSinrMax
<ins> * UipcControlChannelSet </ins>
* targetHarqSinr

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC MC (multicarrier)

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Rongzhen Yang

Membership Status:

Date:

Comment # A130

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 757 Line 7 Fig/Table# Subclause 16.3.8.4.2

The default OffsetControl before initial raning is not necessary for usage.

Suggested Remedy

 The default value of OffsetControl shall be initialized to 0 before AMS starts with initial ranging process.

GroupResolution

Decision of Group: Agree

 The default value of OffsetControl shall be initialized to 0 before AMS starts with initial ranging process.

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Rongzhen Yang

Membership Status:

Date:

Comment # A131

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 761 Line 65 Fig/Table# Subclause 16.3.8.4.7.2

PSR condition needs to be clarified for the first transmission at the end of subsection.

Suggested Remedy

.. (defined in 16.2.3.33). <ins> The first power status reporting is sent after AMS receive AAI_UL_PSR_CFG message with field uplinkPowerStatusReport = 1. </ins>

GroupResolution

Decision of Group: Principle

Adopt the text proposed in C802.16m-10/1038r2.

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hyunjeong Kang

Membership Status:

Date:

Comment # A132

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 461 Line 48 Fig/Table# Subclause 16.3.3.6.2

In July meeting, the AAI_Global-CFG message is changed. But some parameters in the AAI_Global-CFG message should be cleanup and the operation description in section 16.3.3.6.2 referring to the information in the AAI_Global-CFG message should be clarified.

Suggested Remedy

Discuss and adopt a contribution IEEE 802.16m-10/1022 or later version

GroupResolution

Decision of Group: Principle

Resolved by comment #(299).

Resolution:

Modify the text (line 45, page 463) as follows:

When two adjacent <ins>, but sub-carrier non-aligned</ins> carriers both contain AAI zone and WirelessMAN-OFDMA zone, they will be treated as two non-contiguous carriers and be indicated by <ins>are included in</ins> different carrier group in the AAI_Global-C<ins>FG</ins>onfig message.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.3, PHY: Frame structure (Multicarrier)

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hyunjeong Kang

Membership Status:

Date:

Comment # A133

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 200 Line 55 Fig/Table# Subclause 16.2.3.46.2

Upon receipt of the AAI_DSA-REQ or AAI_DSC-REQ message including Group Parameter Create/Change, the receiver shall send an AAI_DSA-RSP or AAI_DSC-RSP with Confirmation code whether at least one service flow is successfully created or changed and the information for the service flow that is successfully created or changed. But any parameter for Group Parameter Create/Change is not defined in AAI_DSA-RSP and AAI_DSC-RSP message.

Suggested Remedy

Discuss and adopt a contribution IEEE 802.16m-10/1023 or later version

GroupResolution

Decision of Group: Agree

Discuss and adopt a contribution IEEE 802.16m-10/1023

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status:

Date:

Comment # **A134**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **59** Line **38** Fig/Table# Subclause **16.2.2.2.3**

Some MAC control messages need to be protected by CMAC. But, there is no mechanism to do so in the current D7 draft

Suggested Remedy

Adopt contribution C80216m-10_0768r1.doc or later revision

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

remedy is incomplete

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Joey Chou

Membership Status:

Date:

Comment # A135

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 889 Line 4 Fig/Table# Subclause Annex P.2
Convert all MAC control message tables in 16.2.3 into ASN.1

Suggested Remedy

Adopt contribution C80216m-10_0967.doc or later revision

GroupResolution

Decision of Group: Principle

Adopt contribution C80216m-10_0967r2

Reason for Group's Decision/Resolution

Re-opened and discussed during the common session on Thursday. C802.16m-10/0967r2 was accepted without objections.

MAC control message tables are not stable yet. The group agreed that the ASN.1 coding will be completed when the tables stabilize.

Group's Notes

Annex P, General: Annex

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Wookbong Lee

Membership Status:

Date:

Comment # A136

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 53 Line 54 Fig/Table# Subclause 16.2.2.1.3.7

Wrong reference

Suggested Remedy

Modify as follows:

Line 54: As defined in section 16.3.6.2.5.6 <ins>table 888</ins>

Line 59: As defined in section 16.3.6.2.5.6 <ins>table 889</ins>

GroupResolution

Decision of Group: Agree

Modify as follows:

Line 54: As defined in section 16.3.6.2.5.6 <ins>table 888</ins>

Line 59: As defined in section 16.3.6.2.5.6 <ins>table 889</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Wookbong Lee

Membership Status:

Date:

Comment # A137

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 90 Line 12 Fig/Table# Subclause 16.2.3.5

DL FFR shall be DL resource metric for FFR

Suggested Remedy

In line 12 of p. 90 (table 684), modify as follows:

DL <ins> resource metric for </ins>FFR

GroupResolution

Decision of Group: Agree

In line 12 of p. 90 (table 684), modify as follows:

DL <ins> resource metric for </ins>FFR

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; LMAC + Others

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Wookbong Lee

Membership Status:

Date:

Comment # A138

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 169 Line 11 Fig/Table# Subclause 16.2.3.37

Wrong reference

Suggested Remedy

In line 11 of p. 169, modify as follows:

2Tx correlation matrix as defined in section Table 16.3.6.2.5.5.1 <ins>16.3.6.2.5.5.1</ins>

GroupResolution

Decision of Group: Agree

In line 11 of p. 169, modify as follows:

2Tx correlation matrix as defined in section Table 16.3.6.2.5.5.1 <ins>16.3.6.2.5.5.1</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Wookbong Lee

Membership Status:

Date:

Comment # A139

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 169 Line 19 Fig/Table# Subclause 16.2.3.37

Wrong reference

Suggested Remedy

In line 19 of p. 169, modify as follows:

4Tx correlation matrix as defined in section 16.3.7.2.5.6 <ins>16.3.6.2.5.5.1</ins>

GroupResolution

Decision of Group: Agree

In line 19 of p. 169, modify as follows:

4Tx correlation matrix as defined in section 16.3.7.2.5.6 <ins>16.3.6.2.5.5.1</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Wookbong Lee

Membership Status:

Date:

Comment # A140

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 169 Line 27 Fig/Table# Subclause 16.2.3.37

Wrong reference

Suggested Remedy

In line 27 of p. 169, modify as follows:

8Tx correlation matrix as defined in section 16.3.7.2.5.6 <ins>16.3.6.2.5.5.1</ins>

GroupResolution

Decision of Group: Agree

In line 27 of p. 169, modify as follows:

8Tx correlation matrix as defined in section 16.3.7.2.5.6 <ins>16.3.6.2.5.5.1</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Wookbong Lee

Membership Status:

Date:

Comment # A141

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 636 Line 46 Fig/Table# Subclause 16.3.6.2.5.3

I don't know why MIMO feedback modes table was deleted. Insert "Table 877--MIMO feedback modes" in D6 at subsection 16.3.6.2.5.3
MIMO feedback modes

Suggested Remedy

In line 46 of p. 636, insert table 877 (MIMO feedback modes) of IEEE P802.16m/D6.

GroupResolution

Decision of Group: Agree

In line 46 of p. 636, insert table 877 (MIMO feedback modes) of IEEE P802.16m/D6.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.6, PHY: Downlink MIMO

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Wookbong Lee

Membership Status:

Date:

Comment # A142

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 772 Line 1 Fig/Table# Subclause 16.3.9.3.1

Currently IEEE 802.16m uplink 2Tx codebook contains antenna selection codewords (index 1000 and 1001). This antenna selection codewords may have some problem. So, we propose to change these antenna selection codewords to antenna turn off codewords.

Suggested Remedy

Adopt contribution C802.16m-10/0952 or its latest version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

1. The proposed changes violate the rule of normalization for each codeword, and degrade the AMS performance as -3 dB in general case (in no power shortage case).
2. Both proposed issues and benefit in the contribution are not well proved;
3. The evaluation in the contribution is insufficient;

Group's Notes

Clause 16.3.9, PHY: Uplink MIMO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Phillip Barber

Membership Status:

Date:

Comment # **A143**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 6 Line 66 Fig/Table# Subclause 3

Acronym 'ASN' occurs several times in the document, but is not defined.

See page 65, line 62 for example instance of ASN in the text.

It appears that 'ASN' is being used in place of the more general and previously used term 'network' or 'operator network'.

I am not convinced that it is necessary to use ASN, which would require additional definition of what constitutes an ASN, what is ABS and AMS relationship to an ASN.

Perhaps we should revert usage to 'network' as was used in 802.16-2009

Suggested Remedy

Either:

Insert row item:

access network (ASN): create appropriate definition

or:

replace all instances of 'ASN' with 'network' throughout the document

GroupResolution

Decision of Group: Principle

Resolved by comment #191.

Resolution:

On page 7, line 24 add the following as indicated:

<ins>ASN access service network</ins>

<ins>ASN.1 abstract syntax notation</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 3, General: Definitions

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Phillip Barber

Membership Status:

Date:

Comment # **A144**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **303** Line **36** Fig/Table# Subclause **16.2.6.5.2.3.2**

In Figure 415

we have not identified 'WiMAX' or 'WiMAX ASN' in the document, and usage of the possibly copyrighted or trademarked name WiMAX is unnecessary in this context

Suggested Remedy

In Figure 415

Either:

delete the term 'WiMAX' from the Figure

or:

replace the term 'WiMAX ASN' with 'network' in the Figure

GroupResolution

Decision of Group: **Principle**

In Figure 415

replace the term 'WiMAX ASN' with 'network' in the Figure

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

kaiying Lv

Membership Status:

Date:

Comment # **A145**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 870 Line 46 Fig/Table# Subclause 16.9.2.4

According to 802.16m/D7, for a carrier switching capable AMS , if its E-MBS services are transmitted on carriers other than its primary carrier, it performs carrier switching to receive the E-MBS services. However, the ABS could not acquire information about which E-MBS service the AMS is currently receiving. It affects the unicast service scheduling for the AMS on its primary carrier.

Suggested Remedy

Discuss and adopt contribution IEEE C802.16m-10_1029 or latest version.

GroupResolution

Decision of Group: Principle

Resolved by comment #54.

Resolution:

Adopt the text proposed in C802.16m-10/1035r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.9, Other: eMBS

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

kaiying Lv

Membership Status:

Date:

Comment # **A146**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **870** Line **65** Fig/Table# Subclause **16.9.3.1**

According to D7, E-MBS configuration parameters such as Zone_Allocation_Bit-MAP, MSI lenth etc. are transmitted in AAI_SCD message for both unicast and E-MBS users to be informed of resource allocation. When these E-MBS configuration parameters updates, E-MBS users shall timely update the parameters to continue receiveing E-MBS service correctly. When carrier-switching capable E-MBS users receive unicast and E-MBS services alternatively between primary and secondary carriers, E-MBS users may not be able to catch updated AAI_SCD message on the secondary carrier. Therefore an update indication shall be sent. On the other hand, the updated E-MBS related SCD information shall be applied at specific time which is related to MSI or AAI_E-MBS_CFG transmission period or AAI_E-MBS_CFG life time.

Suggested Remedy

Discuss and adopt contribution IEEE C802.16m-10_1030 or latest version.

GroupResolution

Decision of Group: **Principle**

Adopt contribution IEEE C802.16m-10_1030r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.9, Other: eMBS

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Phillip Barber

Membership Status:

Date:

Comment # A147

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type General Part of Dis Satisfied Page 827 Line 57 Fig/Table# Subclause 16.6.2.3.2

Sentence:

'Upon ABS receiving the uplink control messages from the ARS, it attaches the ASN transport network headers and forwards the message to the ASN.'

Behavior is BS network behavior, not air interface behavior, and is outside the scope of the air interface standard to specify such normative behavior.

Suggested Remedy

delete sentence

GroupResolution

Decision of Group: Agree

Delete the following sentence on Page 827 Line 57:

'Upon ABS receiving the uplink control messages from the ARS, it attaches the ASN transport network headers and forwards the message to the ASN.'

Reason for Group's Decision/Resolution

Re-opened on Thursday afternoon and discussed. Comment was accepted following the discussion.

The ARS-ABS link is in scope of the standard.

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Limei Wang

Membership Status:

Date:

Comment # A148

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 301 Line 44 Fig/Table# Subclause 16.2652123

According to the Figure 414, the multi-RAT system information is derived from the air interface of 16m. But it seems there is no defined mac control message carrying such information. It needs clarification.

Suggested Remedy

[Note: needs clarification]

GroupResolution

Decision of Group: Principle

In page 301, line 42, modify the following sentence:

"The AMS learns about the presence of other-RAT(s) in SFH and then obtains the system parameters and configuration information from the Multi-RAT information<ins>AAI_L2-xfer</ins> MAC control message."

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Limei Wang

Membership Status:

Date:

Comment # **A149**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **93** Line **63** Fig/Table# Subclause **16.2.3.7**

The paragraph is redundant and can be deleted.

Suggested Remedy

The following parameters may be included in AMS capability negotiation parameters of AAI_REG-REQ.

*AMS initiated aGP Service Adaptation Capability:

0b0: no support

0b1: support

GroupResolution

Decision of Group: **Principle**

Resolved by comment #10031.

Resolution:

Delete the redundant text regarding AMS initiated aGP Service Adaptation Capability as follows.

16.2.3.7 AAI_REG-REQ

An AAI_REG-REQ message is transmitted by AMS to negotiate general AMS capabilities and do registration during network entry.

The following parameters may be included in AMS capability negotiation parameters of AAI_REG-REQ.

•AMS initiated aGP Service Adaptation Capability:

0b0: no support

0b1: support

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Xiangying Yang

Membership Status:

Date:

Comment # **A150**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **272** Line **51** Fig/Table# Subclause **16.2.5.3.1**

MSID privacy depends on MS internal policy (e.g., based on its home NSP policy). This should be clarified in MS privacy section.

Suggested Remedy

adopt text proposal of C80216m-10/1033 or its latest version

GroupResolution

Decision of Group: **Principle**

Resolved by comment #10081.

Resolution:

Adopt the proposed text in contribution C802.16m-10/1014.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Xiangying Yang

Membership Status:

Date:

Comment # A151

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 311 Line 31 Fig/Table# Subclause 16.2.8.2.8

Current PHY layer feedbacks sent in headers and MAC control messages are limited to be on primary carrier. Since actual PHY operations will be independent on each carrier, additional signaling is required to make this work.

Suggested Remedy

adopt text proposal of C80216m-10/1034 or its latest version

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The proposed remedy is incomplete.

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Robert Sultan

Membership Status:

Date:

Comment # A152

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 17 Line 34 Fig/Table# Subclause 6.3.2.1.2.1.1

The change is not mandatory but only valid when the request is granted

Suggested Remedy

In case of the Extended rtPS, the BS changes its grant size to the value specified in this field <ins>if the request is granted</ins>.

GroupResolution

Decision of Group: Agree

In case of the Extended rtPS, the BS changes its grant size to the value specified in this field <ins>if the request is granted</ins>.

Reason for Group's Decision/Resolution

Group's Notes

Clause 6, MAINTENANCE: MAC common part sublayer

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Robert Sultan

Membership Status:

Date:

Comment # **A153**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 176 Line 50 Fig/Table# Subclause 16.2.3.42

Misspelling of word value occurs in 4 places in document (probably due to copy-paste)

Suggested Remedy

Change all occurrences of valuse to value throughout the document

GroupResolution

Decision of Group: **Agree**

Change all occurrences of valuse to value throughout the document

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Phillip Barber

Membership Status:

Date:

Comment # **A154**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **15** Line **8** 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

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: **Disagree**

Reason for Group's Decision/Resolution

Lack of specific remedy.

Group's Notes

Clause 5, MAC: Service Specific CS

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Phillip Barber

Membership Status:

Date:

Comment # **A155**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **15** Line **13** Fig/Table# Subclause **5.2.6**

In Table 2a

I am dissatisfied with the resolution of comment 198

Changes to the text in the Table 2a were agreed in Principle.

However, the Editor erred and missed making one of the agreed changes to the text in the Table 2a

As previously agreed, the presence of RoHC or PHS is signaled elsewhere in the service flow encoding information elements and it is unnecessary and duplicitious to include such notation in the protocol identifier

Suggested Remedy

remove the text '(without RoHC and PHS)' from the Table 2a

GroupResolution

Decision of Group: **Agree**

remove the text '(without RoHC and PHS)' from the Table 2a

Reason for Group's Decision/Resolution

Group's Notes

Clause 5, MAC: Service Specific CS

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Phillip Barber

Membership Status:

Date:

Comment # **A156**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **15** Line **22** 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?

Suggested Remedy

Identify and enumerate clause 16 information elements and rules specific to identified protocol-in-protocol classification for Multiprotocol CS

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

Lack of specific remedy.

Group's Notes

Clause 5, MAC: Service Specific CS

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yan Zheng

Membership Status:

Date:

Comment # **A157**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **793** Line **53** Fig/Table# Subclause **16.3.10.3.3**

Resource allocation for pilot modulation sequence of CoFIP is not very clear and somehow makes amiguity for implementation.

Suggested Remedy

Please see the detial in C80216m-10_0964.doc or later version

GroupResolution

Decision of Group: **Principle**

16.3.10.3.3, page 793 line 53-63 modify the text as indicated:

~~order starting from the pilot subcarrier with the smallest OFDMA symbol index and smallest subcarrier index, and continuing with increasing OFDMA symbol index. When the last OFDMA symbol of the PRU is reached, the mapping is continued on the next pilot subcarrier with smallest OFDMA symbol index.~~ and frequency domain second order. The pilot modulation symbols are mapped on the pilot subcarriers sequentially starting from the subcarrier with the smallest subcarrier index and smallest OFDMA symbol index, and continue in the increasing OFDMA symbol index. For AAI subframes with 5 or 6 OFDMA symbols, when the last OFDMA symbol index is reached, continue with the next subcarrier with the smallest OFDM symbol index until the subcarrier with last subcarrier index and last OFDM symbol index is reached. For AAI subframes with 7 OFDMA symbols, pilot mapping is done for the first 6 OFDMA symbols using the same procedure as that of AAI subframes with 6 OFDMA symbols. The pilot values for the 7-th OFDMA symbol are same as that of the pilot values of the first OFDMA symbol.

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yan Zheng

Membership Status:

Date:

Comment # **A158**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **General** Part of Dis Satisfied Page **511** Line **58** Fig/Table# Subclause **16.3.5.1.2**

Implementation necessity of segment index selection for support of macro, public and CSG femto deployments is ambiguous and needs clarification.

Suggested Remedy

The wording "can" in the last paragraph of page 511 and first paragraph of page 512 is changed to "may". Please see the detail in C80216m-10_0965.doc or later version

GroupResolution

Decision of Group: **Agree**

Adopt the text proposed in C802.16m-10/0965.

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yan Zheng

Membership Status:

Date:

Comment # **A159**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 465 Line 1 Fig/Table# Subclause 16.3.3.7

Current frame structure supports co-existence with TD-SCDMA by 1/8 CP ratio. However it lacks support under 1/16 CP ratio. This contribution amend this missing part and provide the associated frame structure. Please see the detail in C80216m-10_1042.doc or later version

Suggested Remedy

Please see the detail in C80216m-10_1042.doc or later version

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The current 16m draft standard has already a solution (using 1/8 CP) to allow co-ex with TD-SCDMA. No reason to add another option without enough justification.

Group's Notes

Clause 16.3.3, PHY: Frame structure

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Phillip Barber

Membership Status:

Date:

Comment # **A160**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **14** Line **29** Fig/Table# Subclause **5.2.5.2**

The sentence in the document specifies:

'For AMS and ABS, the parameters may be used in IP classification rules.'

What parameters? Not the ones in 11.13.18 as identified elsewhere in the paragraph.

We need to point to the section in Clause 16 that identifies the exact information elements (not legacy TLVs) that are used for IP classification

Suggested Remedy

point to the section in Clause 16 that identifies the exact information elements (not legacy TLVs) that are used for IP classification

GroupResolution

Decision of Group: **Principle**

P 14 L29:

For AMS and ABS, the <ins>Packet Classification Rule</ins> parameters <ins>(Table 740)</ins>may be used in IP classification rules.

Reason for Group's Decision/Resolution

Group's Notes

Clause 5, MAC: Service Specific CS

Editor's Notes

Editor's Actions a) done

Cross reference

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Phillip Barber

Membership Status:

Date:

Comment # **A161**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 412 Line 6 Fig/Table# Subclause 16.2.18.5

The text in the document specifies:

'The network reentry procedure may be shortened if the ABS possesses AMS's information which may be obtained from paging controller or other network entity over the backbone network.'

But the behavior of how the network reentry procedure may be shortened is not adequately specified, in detail, unlike in 802.16-2009 where such behavior is very specifically detailed.

Suggested Remedy

include detailed behavior , or pointer to detailed behavior of optimized or shortened network reentry procedure from Idle Mode.

GroupResolution

Decision of Group: Principle

[Remedy: *Modify texts in page412, line 8 of 16.2.18.5 as follows:*]

The network reentry procedure may be shortened if the ABS possesses AMS's information which may be obtained from paging controller or other network entity over the backbone network. To notify an AMS performing network reentry from idle mode of the reentry process with MAC control messages that may be omitted during the current reentry due to the availability of AMS service and operational context information obtained over the backbone network, the ABS shall include a Reentry Process Optimization (see table 681) in the AAI_RNG-RSP message indicating which reentry MAC control messages may be omitted.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.18, MAC: Idle Mode

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A162

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 659 Line 33 Fig/Table# Subclause 16.3.6.2.5.5.1

I don't agree with the resolution of comment 177 of the SB. I believe an additional line of clarification and a reference to the relevant table in the text are essential for understanding.

Suggested Remedy

Add the following text: The value of q represents \bar{r} (r overbar), as described in Tables 888 and 889

GroupResolution

Decision of Group: Principle

Add the following text: The value of q represents an element of \bar{R} , as described in Tables 888 and 889

##EDITOR: \bar{R} above is upper case R with a bar (as in equation 254).##

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.6, PHY: Downlink MIMO

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A163

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 434 Line 1 Fig/Table# Subclause 16.2.26.1

I am not satisfied with the resolution of comment 194 of the SB. The paragraph refers to ABS actions (The ABS shall stop coverage loss detection procedure (i.e. described in 16.2.26.2)) while 16.2.26.2 describes AMS actions.

Suggested Remedy

change "16.2.26.2" to "above in this paragraph" in the two occurrences

GroupResolution

Decision of Group: Agree

change "16.2.26.2" to "above in this paragraph" in the two occurrences

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.26, MAC: Coverage Detection and Recovery

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # **A164**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial

Part of Dis Satisfied

Page 680 Line 12

Fig/Table#

Subclause 16.3.7.2.3

Wrong table reference.

Suggested Remedy

Change "Table 888 through Table 903" to "Table 901 through Table 903"

Group Resolution

Decision of Group: Agree

Change "Table 888 through Table 903" to "Table 901 through Table 903"

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A165

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 249 Line 6 Fig/Table# Subclause 16.2.5.2.1.5.1

I don't think it necessary to refer to the defintions of the TEKs in the legacy air interface, unless the author deeply feels it is necessary.

Suggested Remedy

Remove the text in paranthesis, and also the phrase "as defined in WirelessMAN-OFDMA" in line 21.

Altnernatively, change "WirelessMAN-OFDMA" to "chapter 7" both in line 12 and line 21. Also drop "used to be".

GroupResolution

Decision of Group: Principle

Remove the text in paranthesis, and also the phrase "as defined in WirelessMAN-OFDMA" in line 21.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # **A166**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **114** Line **46** Fig/Table# Subclause **16.2.3.12**

There is some inconsistencies in the references to the legacy system.

Suggested Remedy

Change "WirelessMAN-OFDMA" to "Wireless-OFDMA Reference" . Also in line 48.

GroupResolution

Decision of Group: **Principle**

Change "WirelessMAN-OFDMA" to "Wireless-OFDMA R1 Reference" .

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A167

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 298 Line 55 Fig/Table# Subclause 16.2.6.5

Wireless-OFDMA per se is not defined

Suggested Remedy

Change "Wireless-OFDMA" to "WirelessMAN-OFDMA"

GroupResolution

Decision of Group: Agree

In page 298, line 55, modify the following sentence:
Change "Wireless-OFDMA" to "WirelessMAN-OFDMA"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A168

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 155 Line 49 Fig/Table# Subclause 16.2.3.29

"16m" is not a part of the standard language

Suggested Remedy

Change "16m" to "AAI"

GroupResolution

Decision of Group: Principle

Resolved by comment #310.

Resolution:

P65 L62 delete "16m"

P155 L49 replace "16m" with "AAI"

P227 replace all occurrences of "16m" with "AAI"

P267 L3 delete "of 16m"

P273 L64 "The selective confidentiality protection over control messages is the<ins>a</ins> mandatory feature of 16m and the negotiated keying materials/ciphersuites are used to encrypt the control messages."

P300 L30 delete "16m"

P303 L55 delete "16m"

P698 F546 replace "16m" with "AAI" all occurrences

P845 L1 delete "16m"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A169

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 156 Line 57 Fig/Table# Subclause 16.2.3.29

There is some inconsistencies in the references to the legacy system.

Suggested Remedy

Change "WirelessMAN-OFDMA" to "Wireless-OFDMA Reference" . Also in Table 713, page 156,line 14.

GroupResolution

Decision of Group: Principle

Change "WirelessMAN-OFDMA" to "WirelessMAN Advanced Air Interface System" . P156 L14, L57,

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A170

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 158 Line 23 Fig/Table# Subclause 16.2.3.30

There is some inconsistencies in the references to the legacy system.

Suggested Remedy

Change "WirelessMAN-OFDMA" to "Wireless-OFDMA Reference" . In table 714, last column.

GroupResolution

Decision of Group: Principle

Change "WirelessMAN-OFDMA" to "WirelessMAN-OFDMA Advanced co-existing System" . In table 714, last column.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A171

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 296 Line 41

Fig/Table#

Subclause 16.2.6.4.1.2.2

See Proposed changes

Suggested Remedy

Change "Advance" to "Advanced"

GroupResolution

Decision of Group: Agree

Change "Advance" to "Advanced"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A172

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 298 Line 8 Fig/Table# Subclause 16.2.6.4.2.3

There is some inconsistencies in the references to the legacy system. Also a typo.

Suggested Remedy

Change "WirlessMAN-OFDMA BS" to "Wir<ins>e<\ins>lessMAN-OFDMA <ins> Reference <\ins> BS

GroupResolution

Decision of Group: Principle

In page 298, line 8, modify the following sentence:

"WirlessMAN-OFDMA BS" to "Wir<ins>e<\ins>lessMAN-OFDMA <ins>R1 Reference System<\ins> BS

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A173

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 298 Line 35 Fig/Table# Subclause 16.2.6.4.2.4

There is some inconsistencies in the references to the legacy system.

Suggested Remedy

Change "WirelessMAN-OFDMA" to "Wireless-OFDMA Reference"

GroupResolution

Decision of Group: Agree

In page 298, line 35, modify the following sentence:
Change "WirelessMAN-OFDMA" to "Wireless-OFDMA Reference"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A174

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 330 Line 55 Fig/Table# Subclause 16.2.11.1.1

There is some inconsistencies in the references to the legacy system.

Suggested Remedy

Change "WirelessMAN-OFDMA" to "Wireless-OFDMA Reference"

GroupResolution

Decision of Group: Principle

Change "WirelessMAN-OFDMA" to "WirelessMAN OFDMA R1 Reference System"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.11, MAC: Bandwidth Request and Allocation Mechanism

Editor's Notes

Editor's Actions b) none needed

Already done.

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A175

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 377 Line 52 Fig/Table# Subclause 16.2142223

There is some inconsistencies in the references to the legacy system.

Suggested Remedy

Change "WirelessMAN-OFDMA" to "Wireless-OFDMA Reference System" Also in lines 57 and 60

GroupResolution

Decision of Group: Principle

On page 377 line 52, Change "WirelessMAN-OFDMA" to "WirelessMAN-OFDMA R1 Reference System"Also in lines 57 and 60

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.14, MAC: HARQ Functions

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A176

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 376 Line 3 Fig/Table# Subclause 16.2142223

There is some inconsistencies in the references to the legacy system.

Suggested Remedy

Change "WirelessMAN-OFDMA" to "Wireless-OFDMA Reference System" also in Figs 440 and 441.

GroupResolution

Decision of Group: Principle

On page 376 line 3, Change "WirelessMAN-OFDMA" to "WirelessMAN-OFDMA R1 Reference System" also in Figs 440 and 441.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.14, MAC: HARQ Functions

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A177

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 380 Line 26 Fig/Table# Subclause 16.2142223

There is some inconsistencies in the references to the legacy system.

Suggested Remedy

Change "WirelessMAN-OFDMA" to "Wireless-OFDMA Reference System" also in Fig. 442.

GroupResolution

Decision of Group: Principle

On page 380 line 26, Change "WirelessMAN-OFDMA" to "WirelessMAN-OFDMA R1 Reference System"Also in figure 442

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.14, MAC: HARQ Functions

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A178

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 386 Line 82 Fig/Table# Subclause 16.2.15.3

There is some inconsistencies in the references to the legacy system.

Suggested Remedy

Change "WirelessMAN-OFDMA" to "Wireless-OFDMA Reference System"

GroupResolution

Decision of Group: Principle

at line 62 page 386.

Change "WirelessMAN-OFDMA" to "WirelessMAN-OFDMA R1 Reference System"

Reason for Group's Decision/Resolution

The page number is correct but line number is not correct, so we corrected it.

And the operation is not about the legacy system but about the BS having both L-Zone and M-Zone.

Group's Notes

Clause 16.2.15, MAC: Network Entry and Initialization

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A179

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 441 Line 30 Fig/Table# Subclause 16.3

There is some inconsistencies in the references to the legacy system.

Suggested Remedy

Change "WirelessMAN-OFDMA" to "Wireless-OFDMA Reference System" or to "WirelessMAN-OFDMA R1" in the entire PHY section.

GroupResolution

Decision of Group: Principle

Throughout Clause 16, Change "WirelessMAN-OFDMA reference" to "WirelessMAN OFDMA R1 Reference"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3, PHY: General

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A180

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 804 Line 9 Fig/Table# Subclause 16.4.1

Wireless-OFDMA per se is not defined

Suggested Remedy

Change "Wireless-OFDMA" to "WirelessMAN-OFDMA"

GroupResolution

Decision of Group: Agree

Change "Wireless-OFDMA" to "WirelessMAN-OFDMA"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A181

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 826 Line 10

Fig/Table#

Subclause 16.6.1

See Proposed changes

Suggested Remedy

Change "Advance" to "Advanced" Also in lines 10, 19, 26

GroupResolution

Decision of Group: Agree

Change "Advance" to "Advanced" Also in lines 10, 19, 26

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A182

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 361 Line 61 Fig/Table# Subclause 16.2.13.5.2.3

A reference to the 16h chapter is probably the wrong one.

Suggested Remedy

Change "<<15.2.14.5>>" to " 16.2.14.5".

GroupResolution

Decision of Group: Agree

Change "<<15.2.14.5>>" to " 16.2.14.5".

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.13, MAC: ARQ mechanism

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A183

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 368 Line 21

Fig/Table#

Subclause 16.2.14.2.1.1

"the" is missing

Suggested Remedy

Change "remains same" to "remains the same"

GroupResolution

Decision of Group: Agree

Change "remains same" to "remains the same"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.14, MAC: HARQ Functions

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A184

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 368 Line 61 Fig/Table# Subclause 16.2.14.2.1.2

The references to the tables 751 and 753 is wrong.

Suggested Remedy

Fill in the right table number.

GroupResolution

Decision of Group: Principle

Modify the clause beginning on line 59 of p. 368 as follows:

...AMS shall transmits<ins>transmit</ins> the next subpacket through the resources assigned to the latest subpacket transmission with the same ACID as specified in Table 751<ins>789</ins> for FDD and Table 753<ins>791</ins> for TDD, respectively.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.14, MAC: HARQ Functions

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A185

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 826 Line 11 Fig/Table# Subclause 16.6.1

The acronym TTR appears here in the first time (not to mention 16j amendment). I suggest to spell it out for the sake of the reader.

Suggested Remedy

Change "TTR" to "time-division transmit and receive (TTR)"

GroupResolution

Decision of Group: Agree

Change "TTR" to "time-division transmit and receive (TTR)"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A186

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 826 Line 14 Fig/Table# Subclause 16.6.1

The acronym STR appears here in the first time (not to mention 16j amendment). I suggest to spell it out for the sake of the reader.

Suggested Remedy

Change "STR" to "Simultaneous transmit and receive (STR)"

GroupResolution

Decision of Group: Agree

Change "STR" to "Simultaneous transmit and receive (STR)"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A187

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 826 Line 7 Fig/Table# Subclause 16.6.1

I would like to re-consider if the Relay feature is really an optional one as declared. I would prefer to see it as a mandatory feature for the AMS and optional for the ABS and the operator fro deployment. Perhaps it would be better not to leave that out of the text.

Suggested Remedy

Delete the first sentence.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

According to the SRD section 9.1, 802.16m SHOULD provide mechanisms to enable multi-hop relays. (emphasis added).

In 7.0 (baseline performance requirements): the SRD states "the performance requirements shall be met without inclusion of the relay stations."

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A188

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 827 Line 33 Fig/Table# Subclause 16.6.2.3.1

Two words were concatenated.

Suggested Remedy

Put a space between "ARS" and "where"

GroupResolution

Decision of Group: Agree

Put a space between "ARS" and "where"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A189

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 827 Line 421 Fig/Table# Subclause 16.6.2.3.1

Two words were concatenated.

Suggested Remedy

Put a space between "PDU" and "where"

GroupResolution

Decision of Group: Agree

Put a space between "PDU" and "where"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A190

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 65 Line 62 Fig/Table# Subclause 16.2.2.2.11

"16m" is not a part of the standard language

Suggested Remedy

Change "16m" to "AAI"

GroupResolution

Decision of Group: Principle

Resolved by comment #310.

Resolution:

P65 L62 delete "16m"

P155 L49 replace "16m" with "AAI"

P227 replace all occurrences of "16m" with "AAI"

P267 L3 delete "of 16m"

P273 L64 "The selective confidentiality protection over control messages is the<ins>a</ins> mandatory feature of 16m and the negotiated keying materials/ciphersuites are used to encrypt the control messages."

P300 L30 delete "16m"

P303 L55 delete "16m"

P698 F546 replace "16m" with "AAI" all occurrences

P845 L1 delete "16m"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A191

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 826 Line 63 Fig/Table# Subclause 16.6.2.2

The term "ASN" appears only in the context of relays (and I do not mean ASN.1) , which is not a part of the standard.

Suggested Remedy

Change "ASN data" to "PDU" or another relevant term. Alternatively, the ASN concept can be introduced, using the SDD text.

GroupResolution

Decision of Group: Principle

On page 7, line 24 add the following as indicated:

<ins>ASN access service network</ins>

<ins>ASN.1 abstract syntax notation</ins>

Reason for Group's Decision/Resolution

"ASN data" is data before MAC processing, so we cannot refer to it as MAC PDU. Instead, the group clarified ASN (and ASN.1, to avoid confusion) in the Abbreviations section, as this term is used in other places in the document.

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A192

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 2 Line 1 Fig/Table# Subclause 1.4

The SDD that states that the reference model for 16m is the same as 802.16-209, with the exception of soft classification. This exception does not appear in the standard itself.

Suggested Remedy

Add the following text: For the Advanced air interface reference model, soft classification (i.e., no SAP is required between the two classes of functions) of the MAC common part sublayer into radio resource control and management functions and medium access control is allowed. .

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

This suggested text is not necessary for the reference model. We do not have the concept of soft classification in the baseline document.

Group's Notes

Clause 1.4, General: Reference Model

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Avraham Freedman

Membership Status:

Date:

Comment # A193

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 827 Line 5 Fig/Table# Subclause 16.6.2.4

Double word

Suggested Remedy

Delete "Where"

GroupResolution

Decision of Group: Principle

Delete the second instance of "where" on page 828 line 5.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Sassan Ahmadi

Membership Status:

Date:

Comment # A194

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 384 Line 1 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

All mandatory features of the standard (those features that have been clearly specified with "shall" have to be grouped as Capability Class 0.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

solution is incomplete

Group's Notes

Clause 16.2.15, MAC: Network Entry and Initialization

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Sassan Ahmadi

Membership Status:

Date:

Comment # A195

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 89 Line 1 Fig/Table# Subclause 16.2..3.4

The device class parameter is missing in AAI_SBC-REQ/RSP messages

Suggested Remedy

Adopt the proposal in the latest revision of contribution C802.16m-10/700

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

definition and coverage of device class is not clear yet.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Sassan Ahmadi

Membership Status:

Date:

Comment # **A196**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **89** Line **1** Fig/Table# Subclause **16.2.3.4**

The parameters negotiated through AAI_SBC-REQ need adjustments (reduced) based on the parameters that are set via device classes, Capability Class 0 (default parameters), and A-MAP IEs to avoid unnecessary negotiation of parameters

Suggested Remedy

Adopt the proposal in in the latest revision of contributions C802.16m-10/750 and C802.16m-10/701

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

definition and coverage of device class is not clear yet.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Sassan Ahmadi

Membership Status:

Date:

Comment # **A197**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 91 Line 17 Fig/Table# Subclause 16.2.3.5

The parameters negotiated through AAI_SBC-RSP need adjustments (reduced) based on the parameters that are set via device classes, Capability Class 0 (default parameters), and A-MAP IEs to avoid unnecessary negotiation of parameters

Suggested Remedy

Adopt the proposal in in the latest revision of contributions C802.16m-10/750 and C802.16m-10/701

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

definition and coverage of device class is not clear yet.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Sassan Ahmadi

Membership Status:

Date:

Comment # **A198**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **94** Line **57** Fig/Table# Subclause **16.2.3.7**

The parameters negotiated through AAI_REG-REQ need adjustments (reduced) based on the parameters that are set via device classes, Capability Class 0 (default parameters), and A-MAP IEs to avoid unnecessary negotiation of parameters

Suggested Remedy

Adopt the proposal in in the latest revision of contributions C802.16m-10/705 and C802.16m-10/701

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

definition and coverage of device class is not clear yet.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Sassan Ahmadi

Membership Status:

Date:

Comment # **A199**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 102 Line 39 Fig/Table# Subclause 16.2.3.8

The parameters negotiated through AAI_REG-RSP need adjustments (reduced) based on the parameters that are set via device classes, Capability Class 0 (default parameters), and A-MAP IEs to avoid unnecessary negotiation of parameters

Suggested Remedy

Adopt the proposal in in the latest revision of contributions C802.16m-10/705 and C802.16m-10/701

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

definition and coverage of device class is not clear yet.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Sassan Ahmadi

Membership Status:

Date:

Comment # A200

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 388 Line 11 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

All mandatory features of the standard (those features that have been clearly specified with "shall" have to be grouped as Capability Class 0. Adopt the proposal in contribution IEEE C80216m-10/0947r1

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

solution is incomplete

Group's Notes

Clause 16.2.15, MAC: Network Entry and Initialization

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Phillip Barber

Membership Status:

Date:

Comment # **A201**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 42 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 language and , similar to that contained 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: **Disagree**

Reason for Group's Decision/Resolution

Lack of specific text.

Group's Notes

Clause 16, General: AAI

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Michael Probasco

Membership Status:

Date:

Comment # **A202**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **14** Line **34** Fig/Table# Subclause **5.2.6**

no benefit provided by this method to existing CS methods. Actually adds overhead to each packet

Suggested Remedy

delete subclause 5.2.6, delete P11 L30-31 (new sentence), remove protocol ID field from figure 8 (p11)

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

removal of this section leaves not method for handling CS muxing

vote: 4 for, 5 against, 2 abstain

Group's Notes

Clause 5, MAC: Service Specific CS

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Michael Probasco

Membership Status:

Date:

Comment # **A203**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **66** Line **24** Fig/Table# Subclause **16.2.3**

ASN.1 code is currently informative, not acceptable for modern radio protocol

Suggested Remedy

add ASN.1 code definition for all MAC control messages, move table definitions of messages to Annex P.2, move ASN.1 definitions in Annex P.2 to 16.2.3.X

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

Current informative ASN.1 code does not properly reflect the normative tables it would replace.

Vote:

In favor: 2

Opposed: 12

Abstain: 0

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Michael Probasco

Membership Status:

Date:

Comment # **A204**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 336 Line 1 Fig/Table# Subclause 16.2.12

Definition of procedures for QoS and management of flows is incomplete

Suggested Remedy

copy text from 802.16-2009 section 16.3.14.7.1, 6.3.14.8, 6.3.14.9 and update these sections as required for use in the AAI

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

no proposed text for the group to accept

Group's Notes

Clause 16.2.12, MAC: Quality of Service (QoS)

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Michael Probasco

Membership Status:

Date:

Comment # **A205**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **433** Line **11** Fig/Table# Subclause **16.2.26**

Title was changed in last ballot, but is still in accurate.

Suggested Remedy

change subclause title to "Coverage Detecion and Recovery from Coverage Loss"

GroupResolution

Decision of Group: **Principle**

change subclause title to "Coverage Loss Detection and Recovery from Coverage Loss"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.26, MAC: Coverage Detection and Recovery

Editor's Notes

Editor's Actions a) done

Comment by:

Michael Probasco

Membership Status:Date:Comment # A206Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 721 Line 21 Fig/Table# Subclause 16.3.8.2.4.1

ranging preamble codes are currently limited to initial ranging and handover ranging codes. In order for the AAI to provide fast access to the radio network for high-priority or urgent services, dedicated preamble codes must be allocated for urgent services.

Suggested Remedy

allocate a pool of ranging preamble codes which can be used to define proper protocol procedures for urgent services in the AAI. Note that it is difficult or impossible to define the protocol procedures until the size of the pool of RP codes is determined (need to know if enough codes to allocate RP codes to specific MS's or if not, the RP codes can be allocated to specific services).

GroupResolutionDecision of Group: DisagreeReason for Group's Decision/Resolution

Not clear its necessity/proposal. Some kind of emergency call process is already supported by AAI_RNG-REQ. Using of more many number of codes will make an impact on the performance, complexity, reuse factor, etc.

Group's Notes

Clause 16.3.8, PHY: Uplink control channel

Editor's NotesEditor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Dan Gal

Membership Status:

Date:

Comment # **A207**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 43 Line 28 Fig/Table# Subclause 16.2.1.2.3

A separate ID called DID is not needed in the MS Idle Mode. A Psuedo MSID, MSID* can be used and that is better. 12bit DID makes the current 16e (legacy) Network implementations of Paging Controller and ASN-GW which uses a 48bit MSID in network 24bits over the air, incompatible with DID approach. The complexity of implementation and inter-working of 16e and 16m MS and ASN-GWs need to be considered. Hence replace all DID with MSID*(24bits). Please change all occurrences of DID to MSID* globally.

Suggested Remedy

Change the text of this sub-clause to:

"An MSID* (24bits) shall provide the DID functionality and uniquely identify the AMS within a Paging Group. If the AMS changes Paging Group, a fresh MSID* may be allocated during the Location Update procedure."

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The DID can save significant message overhead.

Group's Notes

Clause 16.2.1, MAC: Addressing

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Hanan Ahmed

Membership Status:

Date:

Comment # A208

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 413 Line 21 Fig/Table# Subclause 16.2.19.3
incorrect section reference

Suggested Remedy

replace 16.2.18.4. with 16.2.19.4

GroupResolution

Decision of Group: Agree

replace 16.2.18.4. with 16.2.19.4

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.19, MAC: Deregistration with content retention (DCR) mode

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Dan Gal

Membership Status:

Date:

Comment # A209

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 42 Line Fig/Table# Subclause 16.1

inappropriate usage of "&" in "MAC & PHY"

Suggested Remedy

Change "MAC & PHY" to "MAC and PHY"

GroupResolution

Decision of Group: Agree

Change "MAC & PHY" to "MAC and PHY"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.1, General: AAI

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Hanan Ahmed

Membership Status:

Date:

Comment # A210

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 424 Line 16

Fig/Table#

Subclause 16.2.21.1.2.1

syntax error

Suggested Remedy

FFR partition information is broadcast <ins>broadcasted</ins> in S-SFH SP2, and the resource metric is broadcasted in AAI_SCD message, and transmission power level are broadcast <ins>broadcasted</ins> in AAI_DL_IM message and/or S-SFH SP3.

GroupResolution

Decision of Group: Agree

FFR partition information is broadcast <ins>broadcasted</ins> in S-SFH SP2, and the resource metric is broadcasted in AAI_SCD message, and transmission power level are broadcast <ins>broadcasted</ins> in AAI_DL_IM message and/or S-SFH SP3.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.22, MAC: MAC Control Reliability

Editor's Notes

Editor's Actions a) done

Comment by: Phillip BarberMembership Status:Date:Comment # A211Document under Review: P802.16m/D7Ballot ID: sb_16m

<u>Comment</u>	<u>Type</u> Technical	<u>Part of Dis</u> <input checked="" type="checkbox"/>	<u>Satisfied</u> <input type="checkbox"/>	<u>Page</u> 43	<u>Line</u> 25	<u>Fig/Table#</u>	<u>Subclause</u> 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/D7, page 43, line 25, delete subclause 16.2.1.2.3 in its entirety.

In P802.16m/D7, page 74, line 43, table 679, remove the table row for 'Deregistration Identifier (DID)'

In P802.16m/D7, page 74, line 45, table 679,

modify the sentence in 'Conditions' as:

'In the legacy network mode, ~~DID shall not be included, and~~the ABS performs a mapping for paging parameters between AAI air interface and legacy network interface.

In P802.16m/D7, page 77, line 26, table 681, remove '/DID' from the 'Conditions'

In P802.16m/D7, page 77, line 36, table 681, remove '/DID' from the 'Conditions'

In P802.16m/D7, page 78, line 55, table 681, remove the table row for 'Deregistration Identifier (DID)'

In P802.16m/D7, page 78, line 56, table 681, delete the text in 'Conditions': '~~The DID is included only when the Network Configuration indicates ABS is attached to the advanced network.~~'

In P802.16m/D7, page 318, line 45, change the equation to: 'Paging carrier index = AMS MAC Address modulo N'

In P802.16m/D7, page 411, line 59, modify the sentence as: '~~If the Network Configuration bit in the S-SFH is set to 0b1, t~~The AMS provides its actual MAC address in the AAI_RNG-REQ message~~, instead of providing the DID~~.'

In P802.16m/D7, page 412, line 11, modify the sentence as: '~~If the Network Configuration bit in the S-SFH is set to 0b1, t~~The AMS provides its actual MAC address in the AAI_RNG-REQ message~~, instead of providing the DID~~.'

GroupResolutionDecision of Group: Disagree

Reason for Group's Decision/Resolution

The DID can save significant message overhead.

Vote:

In favor: 2

Opposed: 10

Abstain:

Group's Notes

Clause 16.2.1, MAC: Addressing

Editor's Notes

Editor's Actions

b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: James Carlo

Membership Status:

Date:

Comment # A212

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type General Part of Dis Satisfied Page Line Fig/Table# Subclause

I have the following additional notes to comments that were submitted on the initial ballot. My vote is still disapprove.

Comment #450: I agree with the response. I accept the disposition of the committee.

Comment #449: I agree with the response. I accept the disposition of the committee.

Comment #448: I continue to disapprove on this comment. Please add the following additional comment as a proposed remedy: "Use only NA in the standard. Replace all instances of N.A. with NA."

Comment #449: I continue to disapprove on this comment. Please add the following additional comment to #449 as a proposed remedy: " Add [NA - Not Allowed] to the acronym list."

Suggested Remedy

Included in comment. I must admit the balloting directions were confusing - since they did not include an easy way to make comments to my prior comments - so I hope this method works. Jim Carlo

GroupResolution

Decision of Group: Principle

Replace all occuences of "N.A." with "N/A"

Replace all occurrnces of "NA" with "N/A"

Add the following to the acronym list (page 8 line 64): "N/A Not applicable"

Reason for Group's Decision/Resolution

Group's Notes

General, General:

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Dan Gal

Membership Status:

Date:

Comment # **A213**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial

Part of Dis Satisfied

Page 239 Line 64

Fig/Table#

Subclause 16.2.5.2.1.1.2

correct the language of this sentence "...this is used to bind the key to the AMSID and AMSID* is derived according to..."

Suggested Remedy

Change to: "<delete>, this</delete <insert>. It</insert>is used to bind the key to the AMSID and AMSID*<insert>and</insert>is derived according to..."

GroupResolution

Decision of Group: Principle

Change to: "<delete>, this</delete <insert>. AMSID*</insert>is used to bind the key to the AMSID<insert>.</insert> <delete> and AMSID*</delete> <insert>it</insert> is derived according to..."

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Phillip Barber

Membership Status:

Date:

Comment # **A214**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 49 Line 43 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/D7, delete page 49, line 43 through page 52, line 34, deleting subclause 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

No functional capability in protocol if removed, also incurs more BW requests.

Vote: 3, 10, 0

Fails

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Yanhong Wang

Membership Status:

Date:

Comment # A215

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 429 Line 12 Fig/Table# Subclause 16.2.23

Why does the power update mechanism in 16e may be used here?

Suggested Remedy

Needs clarification or just delete this sentence

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

regardless of receiving battery level report the power update mechanism is not impacted.

vote: 8 for, 5 against, 0 abstain.

Group's Notes

Clause 16.2.23, MAC: Power Management for the Active Mode

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Dan Gal

Membership Status:

Date:

Comment # **A216**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **General**

Part of Dis Satisfied

Page **272**

Line **50**

Fig/Table#

Subclause **16.2.5.3.1**

Correct the English in "...AMSID is used in stead of AMSID*... "

Suggested Remedy

change to: "...AMSID is used rather than AMSID*... "

GroupResolution

Decision of Group: **Agree**

change to: "...AMSID is used rather than AMSID*... "

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

Comment by:

Phillip Barber

Membership Status:Date:Comment # **A217**Document under Review: **P802.16m/D7**Ballot ID: **sb_16m**

<u>Comment</u>	<u>Type</u> Technical	<u>Part of Dis</u> <input checked="" type="checkbox"/>	<u>Satisfied</u> <input type="checkbox"/>	<u>Page</u> 284	<u>Line</u> 29	<u>Fig/Table#</u>	<u>Subclause</u> 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.

Suggested Remedy

Remove the feature requiring concurrent transmission to both Serving ABS and Target ABS for both single and multicarrier during handover.

GroupResolutionDecision of Group: **Disagree**Reason for Group's Decision/Resolution

No specific text proposal. It is not clear what needs to be removed.

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's NotesEditor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Phillip Barber

Membership Status:

Date:

Comment # **A218**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 813 Line 10 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/D7, delete page 813, line 10 through page 814, 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

LDM is an essential feature for femto deployments. The advantages still far outweigh any possible implementation/operational complexities.

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Phillip Barber

Membership Status:

Date:

Comment # **A219**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **General** Part of Dis Satisfied Page **818** 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: Multi-BS MIMO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Yanhong Wang

Membership Status:

Date:

Comment # A220

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 18 Line 49 Fig/Table# Subclause 6.3.2.3.39

The expression of the sentence is not correct.

Suggested Remedy

This TLV indicates that the unavailability interval of the activated PSC is to be used for coexistence purposes the MS and the BS requested to use coexistence behavior for the PSC.

GroupResolution

Decision of Group: Agree

This TLV indicates that the unavailability interval of the activated PSC is to be used for coexistence purposes the MS and the BS requested to use coexistence behavior for the PSC.

Reason for Group's Decision/Resolution

Group's Notes

Clause 6, MAINTENANCE: MAC common part sublayer

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Kiseon Ryu

Membership Status:

Date:

Comment # **A221**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 157 Line 29 Fig/Table# Subclause 16.2.3.30

In current 16.2.3.30 AAI_System Configuration Descriptor (SCD) Message section, there are many periodic parameters to be used for informing system configuration. These system parameters are important to operate the system properly because they contain some critical parameters to affect on the system performance. However, there is no description how and when AMS should response to the update of AAI_SCD message. In C802.16m-10/0994, the proposed text is provided to clarify the updating method of AAI_SCD message which is similar to the way defined in the update of S-SFH IEs section.

Suggested Remedy

Adopt the proposed text in C802.16m-10/0994 or its latest revision.

GroupResolution

Decision of Group: Principle

Adopt the proposed text in C802.16m-10/0994r4

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Kiseon Ryu

Membership Status:

Date:

Comment # **A222**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 296 Line 6 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 successfully 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-10/1047 or its latest revision.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

remedy is not fully defined

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Dan Gal

Membership Status:

Date:

Comment # **A223**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **876** Line **64** Fig/Table# Subclause **16.10.3**

The sentence is a normative requirement that belongs logically in section 16.2.5.3.1 in page 272. It also has a typographical error in "...S-SFH to e1i to indicate...". e1i should be corrected to "1".

Suggested Remedy

1. Delete this sentence from section 16.10.3 and
2. Insert in section 16.2.5.3.1 on page 272, line 29:
<insert> When the ABS is connected to advanced (non-legacy) core network, it shall set the Network Configuration bit in S-SFH to '0' and the AMS shall transmit the hashed AMSID* defined below.</insert>
<insert> The ABS shall set the Network Configuration bit in the S-SFH to '1' to indicate that the ABS is connected to a legacy access network." </insert>

GroupResolution

Decision of Group: **Principle**

1. Delete the sentence "The ABS shall set the Network Configuration bit in the S-SFH to e1i to indicate that the ABS is connected to a legacy access network." from section 16.10.3.
2. Second proposed remedy was resolved by comment #10081.
Resolution : Adopt the proposed text in contribution C802.16m-10/1014.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.10, Other: AAI in Lzone; Security

Editor's Notes

Editor's Actions a) done

Comment by:

Mark Cudak

Membership Status:Date:Comment # **A224**Document under Review: **P802.16m/D7**Ballot ID: **sb_16m**Comment Type Technical Part of Dis Satisfied Page 367 Line 55 Fig/Table# Subclause 16.2.14.1

Incremental redundancy (IR) HARQ scheme is mandatory for unicast data traffic and unicast MAC control messages in both downlink and uplink. However, for uplink transmissions, benefits of IR HARQ technique can be limited, or even non-existent, when the ABS re-allocates resources for retransmissions. This contribution proposes a simple modification which will allow IR HARQ operation in the uplink when resource re-allocations for retransmissions are common for uplink data transmissions. The proposed scheme does not incur any additional overhead.

Suggested Remedy

Adopt contribution C802.16m-10/1026 or its latest revision.

GroupResolutionDecision of Group: **Disagree**Reason for Group's Decision/Resolution

The operation of "AMS shall send the subpacket labeled 0b00 when the AMS receives the UL Basic Assignment A-MAP IE()" is just for synchronizing the SPID between ABS and AMS in case of A-MAP IE loss.

Vote:

In favor: 1

Opposed: 3

Abstain:

Group's Notes

Clause 16.2.14, MAC: HARQ Functions

Editor's NotesEditor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Mark Cudak

Membership Status:

Date:

Comment # **A225**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **429** Line **16** Fig/Table# Subclause **16.2.24**

The description of the S-SFH update procedure has been improved significantly in D7 of the 802.16m standard. However, several errors exist in the description and a number of statements in the description are not completely clear. This comment addresses these problems and proposes text modifications designed to improve the explanation.

Suggested Remedy

Adopt contribution C802.16m-10/0973 or its latest revision.

GroupResolution

Decision of Group: **Principle**

Adopt contribution C802.16m-10/0973r3

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.24, MAC: Update of S-SFH Ies

Editor's Notes

Editor's Actions a) done

PHY section completed by SP

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Mark Cudak

Membership Status:

Date:

Comment # **A226**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **460** Line **54** Fig/Table# Subclause **16.3.3.6.1**

I am dissatisfied with the resolution of comment #10206. The resolution ignores the aspects of support for legacy WirelessMAN-OFDMA with multicarrier operation which are not well defined in the current draft of the standard. Specifically, it is not well defined how to transition from the various reuse configurations of WirelessMAN-OFDMA which are currently deployed (1X3X3, 1X4X2, 1X4X4) using various channel bandwidths (especially 5 and 10 MHz) to a fully functional 20 MHz IEEE 802.16m deployment. In order to make this transition smoothly, the multicarrier mode should allow aggregation of both two 10 MHz carriers and four 5 MHz carriers to form a 20 MHz advanced carrier. This aggregation should support multiple carriers supporting the WirelessMAN-OFDMA zone and subcarrier alignment when multiple carriers support WirelessMAN-OFDMA.

Suggested Remedy

The following additions to the standard are required to support WirelessMAN migration to 20 MHz 16m:

- a) Explicit definition of the multicarrier WirelessMAN-OFDMA modes to support Aggregation of 2, 10 MHz carriers and 4, 5 MHz carriers
- b) Enable a primary carrier operation where the WirelessMAN-OFDMA zone is mirrored on both the primary and secondary carrier allowing a reuse 2 WirelessMAN-OFDMA deployment to coexist with the reuse 1 16m deployment
- c) Support for subcarrier alignment even when all carriers support WirelessMAN-OFDMA.

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

No specific text proposed.

Group's Notes

Clause 16.3.3, PHY: Frame structure

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Mark Cudak

Membership Status:

Date:

Comment # **A227**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **464** Line **19** Fig/Table# Subclause **16.3.3.7**

IEEE 802.16m promises an exciting evolution path to today's IEEE 802.16e network operators offering a system that simultaneously provides significantly higher spectral efficiency and protects the service provider's investment in IEEE 802.16e devices. The Frame Configuration Index (FCI) is the current mechanism employed by the standard to partition the resources between IEEE 802.16m and IEEE 802.16e devices. The FCI mechanism falls short of delivering on the promise of backwards compatibility as it too rigidly partitions the resources between legacy and advanced devices while also being too slow to adapt to changing demand. This contribution proposes to eliminate the reliance on FCI index to balance resource between 16e and 16m and instead rely on blind detection of the A-MAP to identify whether the current subframe supports 16m or 16e.

Suggested Remedy

Adopt contribution C802.16m-10/0958 or its latest revision.

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

This proposal causes problems in UL HARQ process. When the number of subframes in DL changes, the HARQ timing in D7 cannot be applied.

Group's Notes

Clause 16.3.3, PHY: Frame structure

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Mark Cudak

Membership Status:

Date:

Comment # **A228**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 502 Line 21 Fig/Table# Subclause 16.3.4.4.3

Sponsor ballot comment #10213 was not completely implemented. The designated paragraph was deleted, but the paragraph which was to be added was not added.

Suggested Remedy

Insert the following paragraph at line 21 of p. 502:

<ins>Inside an open-loop region of type 1 or type 2, the MaxMt pilots shall always be transmitted across all CLRUs in that open-loop region. Outside an open-loop region, the pilots shall not be transmitted on CLRUs where no data is sent.</ins>

GroupResolution

Decision of Group: Agree

Insert the following paragraph at line 21 of p. 502:

<ins>Inside an open-loop region of type 1 or type 2, the MaxMt pilots shall always be transmitted across all CLRUs in that open-loop region. Outside an open-loop region, the pilots shall not be transmitted on CLRUs where no data is sent.</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.4, PHY: Downlink physical structure

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Mark Cudak

Membership Status:

Date:

Comment # **A229**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **582** Line **51** Fig/Table# Subclause **16.3.5.5.2.4.3**

The accepted resolution of comment #10240 was not completely implemented in D7. The sentence given in the resolution to be appended was not added to the document.

Suggested Remedy

Append the following sentence to the end of line 51 on p. 582:

<ins>Allocations of contiguous subbands may be made using the DL Basic Assignment A-MAP IE.</ins>

GroupResolution

Decision of Group: **Agree**

Append the following sentence to the end of line 51 on p. 582:

<ins>Allocations of contiguous subbands may be made using the DL Basic Assignment A-MAP IE.</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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Mark Cudak

Membership Status:

Date:

Comment # **A230**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial

Part of Dis Satisfied

Page 594 Line 4

Fig/Table#

Subclause 16.3.5.5.2.4.5

When the resolution of comment #10243 was implemented, the word "CQI" was inadvertently deleted.

Suggested Remedy

Modify the sentence beginning on line 4 of p. 594 as follows (i.e., insert "CQI" at the end of the sentence):

If MaxMt is set to one, then the AMS shall assume it will be paired with no other AMSs and feed back Rank 1 CL-SU-MIMO<ins> CQI</ins>.

GroupResolution

Decision of Group: **Agree**

Modify the sentence beginning on line 4 of p. 594 as follows (i.e., insert "CQI" at the end of the sentence):

If MaxMt is set to one, then the AMS shall assume it will be paired with no other AMSs and feed back Rank 1 CL-SU-MIMO<ins> CQI</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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Mark Cudak

Membership Status:

Date:

Comment # **A231**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 763 Line 6 Fig/Table# Subclause 16.3.8.4.9

Two editorial issues exist in the sentence beginning on line 6 of p. 763. First, the second part of editorial comment #10291 was not implemented. Second, the sentence currently is a run-on sentence.

Suggested Remedy

Modify the sentence beginning on line 6 of p. 763 as follows:

If CDMA_RNG_FLAG in message AAI_HO-CMD is set to 1, CDMA based ranging shall be performed, <ins>and</ins> the power control parameters of<ins> the</ins> target ABS will be got as<ins>determined using</ins> the process defined in 16.3.8.4.8.

GroupResolution

Decision of Group: **Agree**

Modify the sentence beginning on line 6 of p. 763 as follows:

If CDMA_RNG_FLAG in message AAI_HO-CMD is set to 1, CDMA based ranging shall be performed, <ins>and</ins> the power control parameters of<ins> the</ins> target ABS will be got as<ins>determined using</ins> the process defined in 16.3.8.4.8.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.9, PHY: Uplink MIMO

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Ronald Mao

Membership Status:

Date:

Comment # A232

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 570 Line 38 Fig/Table# Subclause 16.3.5.5.2.4.1

the power save is a very important feature service. We need to enhanced it in 16m

Suggested Remedy

Adopt the proposal text changes in the contribution C80216m-10_1032 or its latest version

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

Loss from scheduling restriction would be higher than gain.

Usually DL control message has top priority for scheduling, which cannot be estimated for its arriving time to BS Queue. Also, priority of MS selecting cannot be estimated for few frames later.

Group's Notes

Clause 16.3.5, PHY: Downlink control structure

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Ronald Mao

Membership Status:

Date:

Comment # A233

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 284 Line 53 Fig/Table# Subclause 16.2.6.3

During the first circulation of the sponsor ballot a comment to change the HO Event Code from 3 bits to two bits was accepted. Unfortunately, this comment failed to include changes in other parts of the standard that were dependent on the encoding of the HO Event Code. This contribution aims at correcting this situation

Suggested Remedy

Adopt the proposal text changes in the contribution C80216m-10_1031 or its latest version

GroupResolution

Decision of Group: Principle

Adopt the proposal text changes in the contribution C80216m-10_1031

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Pei-Kai Liao

Membership Status:

Date:

Comment # **A234**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 35 Line 17 Fig/Table# Subclause 10.1
The default value of BR_ACK_Offset is missing

Suggested Remedy

Adopt text proposal in contribution C802.16m-10/1027 or its latest revision

GroupResolution

Decision of Group: Principle

Resolved by comment #10205.

Resolution:

Make the "Default Value" of "BR ACK offset" field in Table 983, pp. 883, line 19, <ins>**2 frames**</ins>.

Reason for Group's Decision/Resolution

Group's Notes

Clause 10.1, MAINTENANCE: Global Values

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Pei-Kai Liao

Membership Status:

Date:

Comment # A235

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 97 Line 57 Fig/Table# Subclause 16.2.3.7

1. One bit is not enough for Minimal HO Reentry Interleaving Interval.
2. Minimal HO Reentry Interleaving Interval cannot be 0 if AMS only support carrier switching.

Suggested Remedy

Adopt text proposal in contribution C802.16m-10/0971 or its latest revision

GroupResolution

Decision of Group: Principle

Resolved by comment #250

Resolution:

Adopt text proposal in contribution C802.16m-10/0971

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Pei-Kai Liao

Membership Status:

Date:

Comment # **A236**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **285** Line **52** Fig/Table# Subclause **16.2.6.3.4**

HO execution procedure needs further clarification:

1. The definition of "AMS cannot maintain connection with Serving ABS" is ambiguous. What is the difference between this scenario and coverage lost?

It is too much restriction to mandate AMS sending AAI_HO-IND in case of all target ABSs in AAI_HO-CMD are unreachable. The AMS should have flexibility to perform uncontrolled HO to its preferred T-ABS immediately in this case.

Suggested Remedy

Adopt text proposal in contribution C802.16m-10/1028 or its latest revision

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

proposed remedy causes uncontrolled handovers

vote: 7 for, 3 against, 1 abstain.

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Pei-Kai Liao

Membership Status:

Date:

Comment # A237

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 292 Line 11 Fig/Table# Subclause 16.2.6.3.7

Description on HO drop condition is incorrect.

Suggested Remedy

A drop during Handover is defined as the situation where an AMS experiences coverage loss with its serving ABS (either in the DL or in the UL) before the normal HO procedures with the servicing<insert>target</insert> ABS has been completed or where an AMS experiences coverage loss with target<insert>servicing</insert> ABS before the network reentry procedure with the target ABS has been completed.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The current definition is correct. HO drop can happen before or after HO execution. Before HO execution, the AMS determines coverage loss based on the DL signal from its serving ABS. After that, the AMS shall determine coverage loss based on the DL signal from the target ABS.

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Pei-Kai Liao

Membership Status:

Date:

Comment # **A238**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 342 Line 24 Fig/Table# Subclause 16.2.12.3.1.1

aGPS may not be supported by 16m ABS. Therefore, the existing QoS mapping procedure defined in D7 should also be extended to cover the case of HO between ABS which supports aGPS and ABS which does not support aGPS

Suggested Remedy

During AMS handover from Mzone/ABS to LZone/R1 BS <insert> or to Mzone/ABS which does not support aGPS </insert>, an ABS should map an aGP service flow to a service flow of legacy scheduling type.

GroupResolution

Decision of Group: **Disagree**

Same resolution as 253.

Reason for Group's Decision/Resolution

Support of aGPS is mandatory.

Group's Notes

Clause 16.2.12, MAC: Quality of Service (QoS)

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Pei-Kai Liao

Membership Status:

Date:

Comment # **A239**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 433 Line 77 Fig/Table# Subclause 16.2.26.1

The existing coverage loss detection procedure defined in D7 says that, in case of the AMS has no UL data to send upon receiving an unsolicited UL grant from the ABS, the AMS shall just send a MAC PDU with padding bytes on the UL grant. However, it is unclear how the AMS sends the empty MAC PDU, e.g. which service flow it is associated with? We suggest that instead of sending padding bytes, the AMS responses an AAI_MSG-ACK with all fields set to 0.

Suggested Remedy

Adopt text proposal in contribution C802.16m-10/1049 or its latest revision

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

This issue can be resolved by the implementation.

Group's Notes

Clause 16.2.26, MAC: Coverage Detection and Recovery

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A240**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **225** Line **22** Fig/Table# Subclause **16.2.3.57**

The definition of carrier group actually binding with the requirement on sub-carrier alignment in P802.16m/D7. This should be clarified in case reader cannot understand this assumption.

Suggested Remedy

Change the text "Group of contiguous carriers" in the Description field becomes "Group of contiguous carriers which satisfy the sub-carrier alignment condition depicted in 16.3.3.6.2"

GroupResolution

Decision of Group: **Principle**

Resolved by comment #241.

Resolution:

Adopt the proposed text modifications in C802.16m-10/1054r3.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC MC (multicarrier)

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A241**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **225** Line **3** Fig/Table# Subclause **16.2.3.57**

The table format of AAI_Global-CFG need to be clean up, where some technical confusion also need to be fixed.

Suggested Remedy

Adopt the proposed text modification in C802.16m-10/1054 or its latest revision.

GroupResolution

Decision of Group: **Principle**

Adopt the proposed text modifications in C802.16m-10/1054r3.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC MC (multicarrier)

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A242**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 216 Line 59 Fig/Table#

Subclause 16.2.3.52

The table format of AAI_MC-REQ can be further improved to prevent possible confusion.

Suggested Remedy

Adopt the proposed text modification in remedy #1 of C802.16m-10/1055 or its latest revision.

GroupResolution

Decision of Group: **Principle**

Adopt the proposed text modifications in C802.16m-10/1055r3.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC MC (multicarrier)

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A243**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **218** Line **47** Fig/Table#

Subclause **16.2.3.53**

The table format of AAI_MC-RSP can be further improved to prevent possible confusion.

Suggested Remedy

Adopt the proposed text modification in remedy #2 of C802.16m-10/1055 or its latest revision.

GroupResolution

Decision of Group: **Principle**

Resolved by comment #242.

Resolution:

Adopt the proposed text modifications in C802.16m-10/1055r3.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC MC (multicarrier)

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A244**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **219** Line **48** Fig/Table# Subclause **16.2.3.54**

The table format of AAI_CM-CMD can be further improved to prevent possible confusion.

Suggested Remedy

Adopt the proposed text modification in remedy #1 C802.16m-10/1056 or its latest revision.

GroupResolution

Decision of Group: **Principle**

Adopt the proposed text modifications in C802.16m-10/1085.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC MC (multicarrier)

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A245**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **221** Line **46** Fig/Table#

Subclause **16.2.3.55**

The table format of AAI_CM-IND can be further improved to prevent possible confusion.

Suggested Remedy

Adopt the proposed text modification in remedy #2 C802.16m-10/1056 or its latest revision.

GroupResolution

Decision of Group: **Principle**

Resolved by comment #244.

Resolution:

Adopt the proposed text modifications in C802.16m-10/1085.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC MC (multicarrier)

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A246**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **222** Line **18** Fig/Table# Subclause **16.2.3.56**

The table format of AAI_MC-ADV can be further improved to prevent possible confusion.

Suggested Remedy

Adopt the proposed text modification in C802.16m-10/1057 or its latest revision.

GroupResolution

Decision of Group: **Agree**

Adopt the proposed text modification in C802.16m-10/1057.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC MC (multicarrier)

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A247**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **460** Line **54** Fig/Table# Subclause **16.3.3.6.1**

In additional to supporting multi-carrier features, support multiple single carrier frame structures over multiple RF carriers should also under the scope of section 16.3.3.6. In order to prevent changing many section numbers, it is preferred to add additional description into 16.3.3.6.1 to capture the missing information.

Suggested Remedy

Adopt the proposed text modification in C802.16m-10/1058 or its latest revision.

GroupResolution

Decision of Group: **Principle**

Modify the text (line 48, page 459) as follows:

Each carrier shall have its own superframe header. Some carriers may have only part of superframe header. ...

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.3, PHY: Frame structure (Multicarrier)

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A248**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **461** Line **48** Fig/Table# Subclause **16.3.3.6.2**

The definition of carrier group actually binding with the requirement on sub-carrier alignment in P802.16m/D7. This should be clarified in case reader cannot understand this assumption.

Suggested Remedy

Adopt the proposed text modification in C802.16m-10/1059 or its latest revision.

GroupResolution

Decision of Group: **Principle**

Resolved by comment #299.

Resolution:

Modify the text (line 45, page 463) as follows:

When two adjacent <ins>, but sub-carrier non-aligned</ins> carriers both contain AAI zone and WirelessMAN-OFDMA zone, they will be treated as two non-contiguous carriers and be indicated by <ins>are included in</ins> different carrier group in the AAI_Global-C<ins>FG</ins>onfig message.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.3, PHY: Frame structure (Multicarrier)

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A249**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **35** Line **17** Fig/Table# Subclause **10.1**

The default value of BR_ACK_Offset is missing

Suggested Remedy

Adopt text proposal in contribution C802.16m-10/1027 or its latest revision

GroupResolution

Decision of Group: **Principle**

Resolved by comment #10205.

Resolution:

Make the "Default Value" of "BR ACK offset" field in Table 983, pp. 883, line 19, <ins>**2 frames**</ins>.

Reason for Group's Decision/Resolution

Group's Notes

Clause 10.1, MAINTENANCE: Global Values

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A250**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **97** Line **57** Fig/Table# Subclause **16.2.3.7**

1. One bit is not enough for Minimal HO Reentry Interleaving Interval.
2. Minimal HO Reentry Interleaving Interval cannot be 0 if AMS only support carrier switching.

Suggested Remedy

Adopt text proposal in contribution C802.16m-10/0971 or its latest revision

GroupResolution

Decision of Group: **Agree**

Adopt text proposal in contribution C802.16m-10/0971

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions a) done

Comment by:

I-Kang Fu

Membership Status:Date:Comment # A251Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 285 Line 52 Fig/Table# Subclause 16.2.6.3.4

HO execution procedure needs further clarification:

1. The definition of "AMS cannot maintain connection with Serving ABS" is ambiguous. What is the difference between this scenario and coverage lost?

It is too much restriction to mandate AMS sending AAI_HO-IND in case of all target ABSs in AAI_HO-CMD are unreachable. The AMS should have flexibility to perform uncontrolled HO to its preferred T-ABS immediately in this case.

Suggested Remedy

Adopt text proposal in contribution C802.16m-10/1028 or its latest revision

GroupResolution**Decision of Group: Principle**

Resolved by comment #93.

Resolution:

[Editor's Note 1 : modify the text as following in page 286 line 19]

If all target ABSs included in the AAI_HO-CMD message are unreachable (as defined in this section) or if the AAI_HO-CMD message includes no target ABS, and if the AMS has a preferred target ABS it shall inform the serving ABS of its preferred target ABS by sending the AAI_HO-IND message with HO Event Code 0b001 prior to expiration of Disconnect Time. <ins>If the AMS has no preferred target ABS to include in the AAI_HO-IND message, it may perform HO cancellation as described in section 16.2.6.3.6.</ins>

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

Clause 16.2.6, MAC: MAC HO procedures

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A252**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **292** Line **11** Fig/Table# Subclause **16.2.6.3.7**

Description on HO drop condition is incorrect.

Suggested Remedy

A drop during Handover is defined as the situation where an AMS experiences coverage loss with its serving ABS (either in the DL or in the UL) before the normal HO procedures with the servicing<insert>target</insert> ABS has been completed or where an AMS experiences coverage loss with target<insert>servicing</insert> ABS before the network reentry procedure with the target ABS has been completed.

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

The current definition is correct. HO drop can happen before or after HO execution. Before HO execution, the AMS determines coverage loss based on the DL signal from its serving ABS. After that, the AMS shall determine coverage loss based on the DL signal from the target ABS.

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A253**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 342 Line 24 Fig/Table# Subclause 16.2.12.3.1.1

aGPS may not be supported by 16m ABS. Therefore, the existing QoS mapping procedure defined in D7 should also be extended to cover the case of HO between ABS which supports aGPS and ABS which does not support aGPS

Suggested Remedy

During AMS handover from Mzone/ABS to LZone/R1 BS <insert> or to Mzone/ABS which does not support aGPS </insert>, an ABS should map an aGP service flow to a service flow of legacy scheduling type.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

Support of aGPS is mandatory.

vote: 1 for, 2 against, 0 abstain

Group's Notes

Clause 16.2.12, MAC: Quality of Service (QoS)

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A254**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 433 Line 77 Fig/Table# Subclause 16.2.26.1

The existing coverage loss detection procedure defined in D7 says that, in case of the AMS has no UL data to send upon receiving an unsolicited UL grant from the ABS, the AMS shall just send a MAC PDU with padding bytes on the UL grant. However, it is unclear how the AMS sends the empty MAC PDU, e.g. which service flow it is associated with? We suggest that instead of sending padding bytes, the AMS responses an AAI_MSG-ACK with all fields set to 0.

Suggested Remedy

Adopt text proposal in contribution C802.16m-10/1049 or its latest revision

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

This issue can be resolved by the implementation.

Group's Notes

Clause 16.2.26, MAC: Coverage Detection and Recovery

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

I-Kang Fu

Membership Status:

Date:

Comment # **A255**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **106** Line **1** Fig/Table# Subclause **16.2.3.9**

HO message tables are ambiguous and need clarification.

Suggested Remedy

Adopt text proposal in contribution C802.16m-10/1060 or its latest revision

GroupResolution

Decision of Group: **Principle**

Adopt text proposal in contribution C802.16m-10/1060r5

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Roshni Srinivasan

Membership Status:

Date:

Comment # **A256**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **937** Line **26** Fig/Table# Subclause **Annex S**

Annex S needs a number of editorial changes. Refer to contribution C802.16m-10/1044 or its latest revision for details.

Suggested Remedy

Adopt the proposed text in contribution C802.16m-10/1044 or its latest revision.

GroupResolution

Decision of Group: **Agree**

Adopt the proposed text in contribution C802.16m-10/1044

Reason for Group's Decision/Resolution

Group's Notes

Annex S, General: Annex

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Roshni Srinivasan

Membership Status:

Date:

Comment # **A257**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 544 Line 31 Fig/Table# Subclause 16.3.5.3.2.2.

The text in section 16.3.5.3.2.2 needs a number of changes to clarify the procedure for allocation of resource indexes for the HARQ feedback A-MAP. Refer to contribution C802.16m-10/1062 or its latest revision for details.

Suggested Remedy

Adopt the proposed text in contribution C802.16m-10/1062 or its latest revision.

GroupResolution

Decision of Group: Principle

Adopt the proposed text in contribution C802.16m-10/1062r1

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Brian Johnson

Membership Status:

Date:

Comment # **A258**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **784** Line **1** Fig/Table# Subclause **16.3.10.5.1**

This is a reiteration of the comment from the first circulation. The CTC interleaver parameters are poorly chosen and do not allow for contention free interleaver operation of order 2 or 4 for all block sizes. No change was made to the text despite the presentation of a satisfactory solution with equivalent performance to the current text. The resolution indicated more analysis was needed.

Suggested Remedy

Adopt the changes proposed in the latest revision of contribution c802.16m/0922

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

No additional analysis was provided (no updated revision of the contribution).

The gain from the parallel order of 2 is still not clear for the small block sizes. See the contribution C802.16m-10/1082.

Group's Notes

Clause 16.3.10, PHY: Channel coding and HARQ

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Shih-Yuan Cheng

Membership Status:

Date:

Comment # A259

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 822 Line 25 Fig/Table# Subclause 16.5.1.3.1

In order to improve for current sounding based calibration scheme, We proposed a mechanism based on the fundamental characteristic of the sounding based calibration in section 16.5.1.3.1, and the calibration sounding channel for the serving ABS is preserved.

Suggested Remedy

Adopt text proposal of C80216m-10/0985 or its latest version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The proposal actually increases the sounding channel overhead.

Group's Notes

Clause 16.5, Other: Multi-BS MIMO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Vladimir Yanover

Membership Status:

Date:

Comment # A260

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 42 Line 28 Fig/Table# Subclause 16.2.1.2.3

Use of DID as deined in this section for indentifying the paged AMS is not justified as in fact it limits the sige of paging group to 2^{12} . A quasi-random number should be used instead of combination of DID and paging cycle, similarly to 24bits MAC Address hash in 802.16e

Suggested Remedy

Modify the draft to replace the combination of DID and paging cycle with a quasi-random number to identify the AMS at the time of paging, in particular, in AAI_NBR-ADV message

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The DID can save significant message overhead.

Group's Notes

Clause 16.2.1, MAC: Addressing

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Vladimir Yanover

Membership Status:

Date:

Comment # A261

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 115 Line 2 Fig/Table# Subclause 16.2.3.12

According to the latest version of the contribution IEEE C802.16m-10/0564r2

Suggested Remedy

According to the the latest version of the contribution IEEE C802.16m-10/0564r2

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The comment proposes to use additional signaling to indicate a specific frequency partition for CINR measurement. However there is no justification of performance gain when CINR of specific frequency partition (for exampe, reuse 3) is used for handover.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Vladimir Yanover

Membership Status:

Date:

Comment # **A262**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **115** Line **2** Fig/Table# Subclause **16.2.3.12**

According to the the latest version of the contribution IEEE C802.16m-10/0572r4

Suggested Remedy

According to the the latest version of the contribution IEEE C802.16m-10/0572r4

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

The comment proposes to use additional signaling to indicate a specific frequency partition for CINR measurement. However there is no justification of performance gain when CINR of specific frequency partition (for exampe, reuse 3) is used for handover.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions b) none needed

Comment by: Vladimir Yanover

Membership Status:

Date:

Comment # A263

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 392 Line 1 Fig/Table# Subclause 16.2.17

Section 16.2.17 (Sleep Mode) and associated sections need a major cleanup. It is using several concepts, unclearly defined and contradicting each other.

For example: in p.392, line 14

"During Listening Window, the AMS is expected to receive all DL transmissions same way as in Active Mode. "

On the other hand, in p.394, line 15 (note "shall") "When TIMF=0, the AMS shall stay awake in the Listening Window". The condition TIMF=0 makes the reader thinking that probably the AMS is not necessarily available to all DL transmissions during Listening Window. Therefore "staying awake" is not same as being available to all DL transmissions which is very misleading.

Another example: let's compare same sentence in p.392, line 14

"During Listening Window, the AMS is expected to receive all DL transmissions same way as in Active Mode. "
with p.395, line 33

"If the ABS transmits a negative indication to the AMS, the ABS shall not transmit any DL data traffic to the AMS during the remaining part of the Listening Window."

Suggested Remedy

Rewrite the whole section 16.2.17 to follow the concept of clearly defined states (which might be "sleep" and "awake" or "Sleep Window" and "Listening Window") so that the AMS is available to the ABS in "awake" state only and unavailable in another state. The behavior of the ABS and AMS should be specified in terms of these two states only. All other concepts like "staying awake until ..." should be removed

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

no proposal for the group to consider

Group's Notes

Clause 16.2.17, MAC: Sleep Mode

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Vladimir Yanover

Membership Status:

Date:

Comment # **A264**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page Line Fig/Table# Subclause 16.2.18

See contribution "Clarifications in idle Mode section" IEEE C802.16m-10/0911

Suggested Remedy

See contribution "Clarifications in idle Mode section" IEEE C802.16m-10/0911

GroupResolution

Decision of Group: Principle

[Change in 16.2.18, p.400, line 25]

16.2.18 Idle mode

An ABS may be ~~assigned to a member of~~ one or more paging groups ~~that may have different paging cycles and paging offsets.~~ Being assigned to a paging group, the ABS shall advertise the paging group ID (PGID) in the PGID Info message.

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.

When an AMS capable of WirelessMAN-OFDMA Advanced co-existing System operations selects a Mixed Mode ABS as a preferred ABS, the AMS may stay in the Lzone and perform the legacy Idle Mode operation as specified in 6.3.23.

If an AMS in Idle Mode decides to change its Idle Mode operation mode between legacy Idle Mode operation and advanced Idle Mode operation, the AMS shall perform full network reentry in the new Idle Mode operation mode.

The Idle Mode operation mode change is caused also by ~~includes the AMS's movement between BSs operating in legacy and/or advanced mode or zone switching between from~~ LZone ~~and to~~ MZone of a mixed mode ABS and handover between a ABS and a WirelessMAN-OFDMA Advanced co-existing System BS

~~And the decision may be based on the detection of a new Idle Mode operation mode.~~ When an Idle Mode AMS is paged in the Lzone of a mixed mode ABS, the AMS shall perform the network reentry in the LZone of the ABS and may switch to the MZone of the ABS using Lzone to Mzone handover procedures as defined in 16.2.6.4.1.2.1.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.18, MAC: Idle Mode

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Vladimir Yanover

Membership Status:

Date:

Comment # **A265**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

<u>Comment</u>	<u>Type</u>	<u>Part of Dis</u>	<u>Satisfied</u>	<u>Page</u>	<u>Line</u>	<u>Fig/Table#</u>	<u>Subclause</u>
See contribution "Problems in idle Mode specifications " IEEE C802.16m-10/0912	Technical	<input checked="" type="checkbox"/>	<input type="checkbox"/>				16.2.18

Suggested Remedy

See contribution "Problems in idle Mode specifications " IEEE C802.16m-10/0912

GroupResolution

Decision of Group: **Principle**

Adopt the proposed text in the IEEE C802.16m-10/0912 with the following modified instruction.

Remedy 1

[Change in 16.2.18.4.1.1, p.~~402~~ 410, line ~~53~~ 60]

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.18, MAC: Idle Mode

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Vladimir Yanover

Membership Status:

Date:

Comment # A266

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 401 Line 42 Fig/Table# Subclause 16.2.18.1.1

What is "initialization state" in the sentence "Otherwise, the AMS shall turn to the initialization state"? There is no definition. More than that, next sentence presumes that the AMS is in position to reselect the preferred ABS, therefore the AMS must be in Idle Mode. But Idle Mode is not in any sense the "initialization state" of MAC as the AMS enters the IM state after INE and dregistration

Suggested Remedy

Define the "initialization" state of MAC or remove the sentence " Otherwise, the AMS shall turn to the initialization state, reselect its preferred ABS and perform network reentry with its preferred ABS"

GroupResolution

Decision of Group: Principle

change the sentence "Otherwise, the AMS shall turn to the initialization state, reselect its preferred ABS and perform network reentry with its preferred ABS"

"Otherwise the AMS shall determine that service with the ABS has been lost, and AMS shall behave according to 16.2.26.3"

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: Vladimir YanoverMembership Status:Date:Comment # A267Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 408 Line 3 Fig/Table# Subclause 16.2.18.2.2

The following paragraph sounds like every instance of the paging message must include an emergency alert indicator (note "shall")
 "A Paging message is an AMS notification message which either indicates the presence of DL traffic pending for the specified AMS or it is intended to poll an AMS and request a location update without requiring a full network entry. In addition, an emergency alert indicator shall be included in the paging message to notify the idle AMSs about emergency situation(s)."

Suggested Remedy

Change to

"A Paging message is an AMS notification message which either indicates the presence of DL traffic pending for the specified AMS or it is intended to poll an AMS and request a location update without requiring a full network entry. In addition, <ins> the Paging message may include </ins> an emergency alert indicator shall be included in the paging message to notify the idle AMSs about emergency situation(s)."

GroupResolutionDecision of Group: Principle

[Modify the texts on page 408, line 3 as follows]

A Paging message is an AMS notification message which either indicates the presence of DL traffic pending for the specified AMS or it is intended to poll an AMS and request a location update without requiring a full network entry. In addition, [the Paging message may include](#) an emergency alert indicator ~~shall be included in the paging message~~ to notify the idle AMSs about emergency situation(s).

[Modify the row for 'Emergency Alert Indication' in Table 706 on page143 as follows]

M/O: [MQ](#)

Attributes/Arrays of attributes: Emergency Alert Indication

Size(bits): 1

Value/Note: Used to indicate the presence of emergency information

0b0: ~~there is no emergency information~~[reserved](#)

0b1: there is emergency information

Conditions: ~~N.A.~~[Present if there is emergency information.](#)Reason for Group's Decision/ResolutionGroup's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Vladimir Yanover

Membership Status:

Date:

Comment # **A268**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 407 Line 61 Fig/Table# Subclause 16.2.18.2.1

The following sentence is unclear:

"At evaluation and selection of the preferred ABS, the AMS shall synchronize and decode the SFH (superframe header) for the preferred ABS and extract the super-frame number to determine the time that is remaining until the next regular paging listening interval for the preferred ABS. The calculated time until the next regular paging listening interval shall be the paging unavailable interval."

1. During evaluation and selection of the [new] preferred ABS the AMS normally already has a [old] preferred ABS to which there is no need to synchronize.
2. Paging unavailable interval [of the AMS] is something known to the network, so it cannot be recalculated by the AMS at the moment unknown to the network

Suggested Remedy

Delete the sentence

GroupResolution

Decision of Group: Principle

Delete the following sentence.

"The calculated time until the next regular paging listening interval shall be the paging unavailable interval."

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.18, MAC: Idle Mode

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Vladimir Yanover

Membership Status:

Date:

Comment # **A269**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 409 Line 5 Fig/Table# Subclause 16.2.18.2.3

The only possible interpretation of the following sentence is that the ABS must transmit (the same) PGID_Info message in ANY paging listening interval ever assigned to ANY mobile in ANY paging group supported by the ABS.

"The ABS shall transmit the PGID_Info at a predetermined location in the paging listening interval in order to advertise the paging group(s) that is supported by the ABS."

For example, if paging cycle = 64 SFs, and the ABS supports several paging groups (tens of thousands of mobiles), with high probability all offsets 0..63 will be occupied by listening intervals, therefore the ABS will be mandated to transmit the PGID_Info in every frame. Obviously the air interface will be overloaded with PGID_Info transmissions.

Suggested Remedy

Provide a method to allow less frequent transmissions of the PGID_Info

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

There is no specific remedy, and it can be solved as implementation because it depends on the management of paging offset. Transmission of PGID_info every paging listening interval is needed to support multicarrier paging operation.

Group's Notes

Clause 16.2.18, MAC: Idle Mode

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Vladimir Yanover

Membership Status:

Date:

Comment # A270

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page Line Fig/Table# Subclause 16.2.18.4.2

In the sentence

"If paging group has changed, then the ABS shall include Paging Group ID in the AAI_RNG-RSP message" the condition "If paging group has changed" is not clear. This language presumes a context in which there was a single group to which the AMS was assigned before the LU and there is another single group (presumably supported by the preferred ABS) and these two are different. However there might be multiple PGs assigned to the AMS before the LU and multiple PGs supported by the current preferred ABS. So the condition is inconsistent.

Suggested Remedy

Clarify

GroupResolution

Decision of Group: Principle

Modify the text as follows, page 411, line 46.

If ~~paging group has changed~~ the ABS receives the AAI_RNG-REQ message from the AMS including Ranging Purpose indication set to 0b0011 and if none of the PGID(s) to which the AMS is assigned to is supported by the ABS, then the ABS shall include New Paging Group ID(s) in the AAI_RNG-RSP message.

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: Vladimir Yanover

Membership Status:

Date:

Comment # **A271**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

<u>Comment</u>	<u>Type</u> Technical	<u>Part of Dis</u> <input checked="" type="checkbox"/>	<u>Satisfied</u> <input type="checkbox"/>	<u>Page</u>	<u>Line</u>	<u>Fig/Table#</u>	<u>Subclause</u> 16.2.3.2
----------------	------------------------------	--	---	-------------	-------------	-------------------	----------------------------------

The role of the field "New PGID of the AMS" is unclear. Suppose that the AMS has been assigned three PGs: 17,18 and 19. In the RNG-RSP the AMS received New PGID = 22. What will be the new set of PGs assigned to the AMS?

Suggested Remedy

Clarify

GroupResolution

Decision of Group: **Principle**

Add the New Paging Information above New Paging Cycle in page 78, line 38 and add A), B), C) .

M	Attributes	Size (bits)	Value / Note	Conditions
/O	/ Array of attributes			

- O New Paging Information variable New Paging Information of the AMS assigned to |
- A) New Paging Cycle |
- B) New Paging Group ID |
- C) New Paging Offset |

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Shao-Cheng Wang

Membership Status:

Date:

Comment # A272

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 86 Line Fig/Table# Subclause 16.2.3.4

The parameters negotiated through AAI_SBC-REQ/RSP need adjustments (reduced) based on the parameters that are set via device classes, Capability Class 0 (default parameters), and A-MAP IEs to avoid unnecessary negotiation of parameters

Suggested Remedy

Adopt the proposed text in contribution C802.16m-10_1063 or its later version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

definition and coverage of device class is not clear yet.

vote: 2 for, 4 against, 0 abstain

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Shao-Cheng Wang

Membership Status:

Date:

Comment # A273

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 388 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_947r1 and C802.16m-10_1061 or their corresponding later versions.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

solution is incomplete

Group's Notes

Clause 16.2.15, MAC: Network Entry and Initialization

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Shao-Cheng Wang

Membership Status:

Date:

Comment # A274

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 407 Line 65 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-10/0678 or its latest revision.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

No relevant contribution was submitted. The cited contribution was from Session 67 and no updates were made since that meeting.

Group's Notes

Clause 16.2.18, MAC: Idle Mode

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Shao-Cheng Wang

Membership Status:

Date:

Comment # A275

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 43 Line 28 Fig/Table# Subclause 16.2.1.2.3

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-10/0679 or its latest revision.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The DID can save significant message overhead.

Group's Notes

Clause 16.2.1, MAC: Addressing

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Shao-Cheng Wang

Membership Status:

Date:

Comment # A276

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 553 Line 47 Fig/Table# Subclause 16.3.5.5.1.2

The current "Femto Indicator" in SFH-SP1 (Table 837) is confusing. Suggest rename it to something not relevant to cell type to avoid confusion, i.e., a pico may also use ranging configuration similar to a Femto cell.

Suggested Remedy

Change the term "Femto Indicator" in Table 837 to "Cell specific ranging configuration Indicator" in column 1 and Column 3 of Table 837 in line 47.

GroupResolution

Decision of Group: Agree

Change the term "Femto Indicator" in Table 837 to "Cell specific ranging configuration Indicator" in column 1 and Column 3 of Table 837 in line 47.

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hyunjeong Kang

Membership Status:

Date:

Comment # A277

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 169 Line 1 Fig/Table# Subclause 16.2.3.37

Current MAC control message table in 16m/D7 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 SingleBS_MIMO_FBK MAC control messages.

Suggested Remedy

Adopt the proposed text in contribution C802.16m-10/1074 or its later version.

GroupResolution

Decision of Group: Principle

Adopt the proposed text in contribution C802.16m-10/1074r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; LMAC + Others

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hyunjeong Kang

Membership Status:

Date:

Comment # A278

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 156 Line 1 Fig/Table# Subclause 16.2.3.29

Current MAC control message table in 16m/D7 is not clear from a readability point of view. This contribution provides updated table format for the AAI_L2-xfer, AAI_MSG-ACK, and AAI_RES-CMD messages.

Suggested Remedy

Adopt the proposed text in contribution C802.16m-10/1069 or its later version.

GroupResolution

Decision of Group: Principle

Adopt the proposed text in contribution C802.16m-10/1069r2

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Nader Zein

Membership Status:

Date:

Comment # **A279**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 567 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 in 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

Adopt proposed changes indicated in contribution C80216m-10_0969r1 or its latest revision

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

The proposal does not quantify the gain.

Vote:

In favor: 9

Opposed: 7

Abstain:

Group's Notes

Clause 16.3.5, PHY: Downlink control structure

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hyunjeong Kang

Membership Status:

Date:

Comment # A280

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 138 Line 1 Fig/Table# Subclause 16.2.3.20

Current MAC control message table in 16m/D7 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 idle mode MAC control messages.

Suggested Remedy

Adopt the proposed text in contribution C802.16m-10/1073 or its later version.

GroupResolution

Decision of Group: Principle

Adopt the proposed text in contribution C802.16m-10/1073r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yi-Ting Lin

Membership Status:

Date:

Comment # **A281**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **822** Line **25** Fig/Table# Subclause **16.5.1.3.1**

The total number of calibration sounding channels could be reduced by one by the proposed modification of generation of calibration sounding sequence .

Suggested Remedy

Adopt the contribution C80216m-10/0985 or its latest version.

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

The proposal actually increases the sounding channel overhead.

Group's Notes

Clause 16.5, Other: Multi-BS MIMO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chun-Yen Hsu

Membership Status:

Date:

Comment # A282

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 822 Line 25 Fig/Table# Subclause 16.5.1.3.1

Optimization of current multi-BS MIMO sounding phase calibration scheme is desirable. A modification of generation of calibration sounding sequence is proposed to improve the transmission efficiency of calibration sounding channels.

Suggested Remedy

Adopt the contribution C80216m-10/0985 or its latest revision.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The proposal actually increases the sounding channel overhead.

Group's Notes

Clause 16.5, Other: Multi-BS MIMO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chiu-Wen Chen

Membership Status:

Date:

Comment # **A283**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **General** Part of Dis Satisfied Page **822** Line **25** Fig/Table# Subclause **16.5.1.3.1**

To increase the benefit of the multi-BS MIMO sounding calibration scheme in 16.5.1.3.1. A modification of generation of calibration sounding sequence is proposed.

Suggested Remedy

Adopt the text proposal in C802.16m-10/0985 or its latest version.

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

The proposal actually increases the sounding channel overhead.

Group's Notes

Clause 16.5, Other: Multi-BS MIMO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chih-Cheng Yang

Membership Status:

Date:

Comment # **A284**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 822 Line 25 Fig/Table# Subclause 16.5.1.3.1

With the help of calibration sounding sequence, the mismatch of DL/UL phase can be eliminated, in order to further improve the sounding transmission efficiency , a modification of generation of calibration sounding sequence is proposed.

Suggested Remedy

Adopt the contribution C80216m-10/0985 or latest version.

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

The proposal actually increases the sounding channel overhead.

Group's Notes

Clause 16.5, Other: Multi-BS MIMO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jonathan Labs

Membership Status:

Date:

Comment # **A285**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 19 Line 60 Fig/Table# Subclause 6.3.2.3.23

[Re: Maintenance Change Request 0026 in IEEE 802.16maint-09/0007r9]

[Re: IEEE L802.16-10/0034, Annex A]

802.16-2009 requires that the BS shall include Physical Parameters Supported in the SBC-RSP if found in the SBC-REQ. However, Physical Parameters Supported includes a number of TLVs and the standard is not clear on whether SBC-RSP shall include each TLV found in SBC-REQ. This introduces ambiguity on interpretation when TLV 204 OFDMA Parameters Sets is included in SBC-REQ.

In addition, 802.16-2009 requires that the MS shall include Physical Parameters Supported if the MS is not intended to solicit NSP information. Since Physical Parameters Supported includes both TLV 204 which defines sets of parameters and a number of individual TLVs, the standard is not clear on when TLV 204 shall be included and when individual TLVs shall be included.

These different interpretations of the standard lead to potential IOT problem. For example, the network entry procedure may fail as the MS may reject SBC-RSP if it does not include TLV 204.

Since TLV 204 is designed in a way that the parameter sets cover most of the implementation cases, it is desired to include TLV 204 in SBC-REQ/RSP when possible instead of each individual TLV in order to reduce overhead.

Suggested Remedy

Adopt contribution IEEE C802.16m-10/1064

GroupResolution

Decision of Group: **Agree**

Adopt contribution IEEE C802.16m-10/1064

Reason for Group's Decision/Resolution

Group's Notes

Clause 6, MAINTENANCE: MAC common part sublayer

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jonathan Labs

Membership Status:

Date:

Comment # A286

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 18 Line 6 Fig/Table# Subclause 6.3.2.3.39

Sections 6.3.2.3.39 and 6.3.2.3.40 are out of sequence.

Suggested Remedy

Move Sections 6.3.2.3.39 and 6.3.2.3.40 on pages 18 and 19 to before Section 6.3.2.3.42 on page 21.

GroupResolution

Decision of Group: Agree

Move Sections 6.3.2.3.39 and 6.3.2.3.40 on pages 18 and 19 to before Section 6.3.2.3.42 on page 21.

Reason for Group's Decision/Resolution

Group's Notes

Clause 6, MAINTENANCE: MAC common part sublayer

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jonathan Labs

Membership Status:

Date:

Comment # A287

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 19 Line 14 Fig/Table# Subclause 6.3.2.3.40

[Re: Maintenance Change Request 0028 in IEEE 802.16maint-09/0007r9]

[Re: IEEE L802.16-10/0034, Annex C]

New PSC during Sleep mode may lead to IO problems.

Possible interoperability Issue:

The BS shall not send a MOB_SLP-RSP message with a different PSC ID than the MS requested in MOB_SLP-REQ message with Definition=1.

MOB_SLP-REQ and --RSP can also contain more than one PSC. If the MS for example asks for a PSC with Id 1 and 2 and the BS response contains Id 3 and 4 then it might not be clear for the MS how to match with the PSC parameters.

Suggested Remedy

[Insert the following text on page 19 of P802.16m/D7 at line 14:]:

Power_Saving_Class_ID

Assigned power saving class identifier. The ID shall be unique within the group of power saving classes ~~associated with~~ defined ~~the MS~~ by the MOB_SLP-REQ/MOB_SLP-RSP transaction. The MS and BS shall use the same Power Saving Class ID during the MOB_SLP-REQ/MOB_SLP-RSP transaction. This ID may be used in further MOB_SLP-REQ/RSP messages for activation/deactivation of power saving class.

GroupResolution

Decision of Group: Agree

[Insert the following text on page 19 of P802.16m/D7 at line 14:]:

Power_Saving_Class_ID

Assigned power saving class identifier. The ID shall be unique within the group of power saving classes ~~associated with~~ defined ~~the MS~~ by the MOB_SLP-REQ/MOB_SLP-RSP transaction. The MS and BS shall use the same Power Saving Class ID during the MOB_SLP-REQ/MOB_SLP-RSP transaction. This ID may be used in further MOB_SLP-REQ/RSP messages for activation/deactivation of power saving class.

Reason for Group's Decision/Resolution

Group's Notes

Clause 6, MAINTENANCE: MAC common part sublayer

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jonathan Labs

Membership Status:

Date:

Comment # A288

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 14 Line 4 Fig/Table# Subclause 5.2.3.2

[Re: Maintenance Change Request 0029 in IEEE 802.16maint-09/0007r9]

[Re: IEEE L802.16-10/0034, Annex D]

See problem statement in IEEE C802.16m-10/1065 on PHSI in an MS-initiated DSA REQ/DSC-REQ message

Suggested Remedy

Adopt contribution CIEEE 802.16m-10/1065

GroupResolution

Decision of Group: Agree

Adopt contribution CIEEE 802.16m-10/1065

Reason for Group's Decision/Resolution

Group's Notes

Clause 5, MAC: Service Specific CS

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jonathan Labs

Membership Status:

Date:

Comment # A289

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 22 Line 34 Fig/Table# Subclause 6.3.2.3.47

[Re: Maintenance Change Request 0041 in IEEE 802.16maint-09/0007r9]

[Re: IEEE L802.16-10/0070r1, Annex A]

Currently the IEEE802.16 standard draft does not limit the BS to send MOB-BSHO_REQ message to the MS for initiating handover to a new candidate target BS without any scanning report.

If the BS sends MOB-BSHO_REQ to the MS without any scan reports, this can cause possible performance degradation on the MS side, since the new target BS that has been selected by the previous serving BS without scan report can have worse channel conditions than the serving BS.

Suggested Remedy

[Insert the following change language text on page 22 of P802.16m/D7 after line 34:]

[Modify the paragraph in section 6.3.2.3.47 on page 221 in 802.16-2009 as indicated]

6.3.2.3.47 MOB_BSHO-REQ (BS HO request) message

The BS may transmit a MOB_BSHO-REQ message when it wants to initiate an HO. ~~An MS receiving this message may scan recommended neighbor BSs in this message.~~ When the BS indicates one or more possible target BSs in the recommended neighbor BS list of the MOB_BSHO-REQ message, the BS should not include a neighbor BS if the BS did not receive at least one MOB_SCN-REP message that includes the up-to-date scanning results of the neighbor BS. The determination of up-to-date is left to vendors' implementation and is out of scope of this standard.The message shall be transmitted on the Basic CID. See Table 150.

GroupResolution

Decision of Group: Principle

[Insert the following change language text on page 22 of P802.16m/D7 after line 34:]

[Modify the paragraph in section 6.3.2.3.47 on page 221 in 802.16-2009 as indicated]

6.3.2.3.47 MOB_BSHO-REQ (BS HO request) message

The BS may transmit a MOB_BSHO-REQ message when it wants to initiate an HO. ~~An MS receiving this message may scan recommended neighbor BSs in this message.~~ If the BS indicates one or more possible target BSs in the recommended neighbor BS list of the MOB_BSHO-REQ message, the BS should not include a neighbor BS if the BS did not receive at least one MOB_SCN-REP message that includes the up-to-date scanning results of the neighbor BS. The determination of up-to-date is left to vendors' implementation and is out of scope of this standard.The message shall be transmitted on the Basic CID. See Table 150.

Reason for Group's Decision/Resolution

Group's Notes

Clause 6, MAINTENANCE: MAC common part sublayer

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jonathan Labs

Membership Status:

Date:

Comment # A290

Document under Review: P802.16m/D7

Ballot ID: sb_16m

<u>Comment</u>	<u>Type</u>	<u>Technical</u>	<u>Part of Dis</u>	<input checked="" type="checkbox"/> <u>Satisfied</u>	<input type="checkbox"/>	<u>Page</u>	<u>Line</u>	<u>Fig/Table#</u>	<u>Subclause</u>
----------------	-------------	------------------	--------------------	--	--------------------------	-------------	-------------	-------------------	------------------

6.3.2.3.23

[Re: Maintenance Change Request 0042 in IEEE 802.16maint-09/0007r9]

[Re: IEEE L802.16-10/0070r1, Annex B]

There are already WiMAX deployments and mobiles having no support for NDnS. So any implementation must have this "backward compatibility" provisions.

The standard does not contain a capability exchange for NDnS or guidance for this issue.

Suggested Remedy

[Insert the following change language text on page 19 of P802.16m/D7 after line 60:]:

[Modify the paragraph in section 6.3.2.3.23 on page 131 in 802.16-2009 as indicated]

6.3.2.3.23 SBC-REQ (SS basic capability request) message

An SS shall generate SBC-REQ messages including the following parameter:

Basic CID (in the MAC header)

The connection identifier in the MAC header is the Basic CID for this SS, as assigned in the RNG-RSP message.

All other parameters are coded as TLV tuples.

The Basic Capabilities Request contains the SS Capabilities Encodings (11.8) that are necessary to acquire NSP information and for effective communication with the SS during the remainder of the initialization protocols. NSP information is solicited in the SBC-REQ message when the SBC-REQ includes the SIQ TLV (11.8.9) with bit 0 set to 1.

<ins>The SS shall include the SIQ TLV in the Basic Capability Request if the SS received the NSP Change Count TLV as part of the DCD and</ins> The following parameter shall be included in the Basic Capability Request if the SS is intended <ins>intends</ins> to solicit NSP information:

Service Information Query (see 11.8.9)

The following parameter shall be included in the Basic Capabilities..

GroupResolution

Decision of Group: Agree

[Insert the following change language text on page 19 of P802.16m/D7 after line 60:]:

[Modify the paragraph in section 6.3.2.3.23 on page 131 in 802.16-2009 as indicated]

6.3.2.3.23 SBC-REQ (SS basic capability request) message

An SS shall generate SBC-REQ messages including the following parameter:

Basic CID (in the MAC header)

The connection identifier in the MAC header is the Basic CID for this SS, as assigned in the RNG-RSP message.

All other parameters are coded as TLV tuples.

The Basic Capabilities Request contains the SS Capabilities Encodings (11.8) that are necessary to acquire NSP information and for effective communication with the SS during the remainder of the initialization protocols. NSP information is solicited in the SBC-REQ message when the SBC-REQ includes the SIQ TLV (11.8.9) with bit 0 set to 1.

<ins>The SS shall include the SIQ TLV in the Basic Capability Request if the SS received the NSP Change Count TLV as part of the DCD and</ins> The following parameter shall be included in the Basic Capability Request if the SS is intended <ins>intends</ins> to solicit NSP information:
Service Information Query (see 11.8.9)
The following parameter shall be included in the Basic Capabilities..

Reason for Group's Decision/Resolution

Group's Notes

Clause 6, MAINTENANCE: MAC common part sublayer

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jonathan Labs

Membership Status:

Date:

Comment # A291

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment **Type** Technical **Part of Dis** **Satisfied** **Page** 37 **Line** 21 **Fig/Table#** **Subclause** 11.3.1

[Re: Maintenance Change Request 0043 in IEEE 802.16maint-09/0007r9]

[Re: IEEE L802.16-10/0070r1, Annex C]

The purpose of this CR is to provide needed clarifications into the current release of the IEEE 802.16 standard with respect to sounding region TLV which is sent via UCD. Currently the definition of the region via TLV is missing information in compare to the definition via the map IE. The misalignment should be fixed by adding the missing information to the TLV in the UCD

Suggested Remedy

Adopt contribution IEEE C802.16m-10/1066

GroupResolution

Decision of Group: Agree

Adopt contribution IEEE C802.16m-10/1066

Reason for Group's Decision/Resolution

Group's Notes

Clause 11, MAINTENANCE: TLV encodings

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jonathan Labs

Membership Status:

Date:

Comment # **A292**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 17 Line 49 Fig/Table# Subclause 6.3.2.3

[Re: Maintenance Change Request 0044 in IEEE 802.16maint-09/0007r9]

[Re: IEEE L802.16-10/0070r1, Annex D]

In IEEE 802.16-2009, HARQ which brings benefits to extend downlink/uplink coverage can be applied for management messages as well as data. For coverage extension, HARQ is required for RNG-REQ, SBC-REQ and BRH messages.

However, HARQ can be used to transmit the management message only after exchanging the SBC-REQ/RSP messages because HARQ parameters are negotiated through the SBC-REQ/RSP messages.

Moreover, if the MS wants to receive uplink resources using existing HARQ UL-MAP IEs, it requires basic CID. But, during network (re)entry, the MS does not have any CID.

Even further, BS cannot distinguish between HARQ-applied burst and HARQ-non-applied bursts unless it allocates uplink resources using different MAP IE (i.e., using normal UL-MAP IE or HARQ UL-MAP IE).

Suggested Remedy

Adopt contribution IEEE C802.16m-10/1067

GroupResolution

Decision of Group: Principle

Adopt contribution IEEE C802.16m-10/1081

Reason for Group's Decision/Resolution

Group's Notes

Clause 6, MAINTENANCE: MAC common part sublayer

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jonathan Labs

Membership Status:

Date:

Comment # A293

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 38 Line 1 Fig/Table# Subclause 11.7.8.11

[Re: IEEE L802.16-10/0070r1, Annex E]

In case a BS use Preamble Index Override or Ranging Abort Timer in RNG-RSP message, the BS need to be sure the MS supports the feature. If the MS does not support the parameters, it will simply discard the parameters.

Suggested Remedy

Adopt contribution IEEE C802.16m-10/1068r1

GroupResolution

Decision of Group: Agree

Adopt contribution IEEE C802.16m-10/1068r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 11, MAINTENANCE: TLV encodings

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Young Soo Yuk

Membership Status:

Date:

Comment # A294

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 188 Line 4 Fig/Table# Subclause 16.2.3.46.1

Detailed method for supporting the carrier switching mode AMS should be defined for efficient unicast scheduling for the AMS. Refer to C802.16m-10/1005 or the latest revision of the contribution.

Suggested Remedy

Adopt the Text proposal in C802.16m-10/1005 or the latest revision of the contribution.

GroupResolution

Decision of Group: Principle

Resolved by comment #54.

Resolution:

Adopt the text proposed in C802.16m-10/1035r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; LMAC + Others

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Young Soo Yuk

Membership Status:

Date:

Comment # A295

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 304 Line 8 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-10/1008 or the latest revision of the contribution.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

To fix the subframe a flow can be scheduled during negotiation can make serious limitation for ABS's scheduling.

Group's Notes

Clause 16.2.7, MAC: Persistent Scheduling

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Young Soo Yuk

Membership Status:

Date:

Comment # A296

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 311 Line 31 Fig/Table# Subclause 16.2.8.2.8

In current spec, feedback header and control message are carried in only primary carrier. But there is no carrier information.

Suggested Remedy

Adopt the Text proposal in C802.16m-10/1000 or the latest revision of the contribution.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The proposed remedy is incomplete.

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Young Soo Yuk

Membership Status:

Date:

Comment # A297

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 318 Line 34 Fig/Table# Subclause 16.2.8.2.10.2

For E-MBS Idle mode AMS, the AAI_PAG-ADV transmits at the same carrier as the dedicated carrier for E-MBS. When E-MBS Idle mode AMS finishes the E-MBS reception, the paging carrier of the AMS is configured as the carrier index = (DID modulo N). However the ABS can not know it because there is not any interaction between AMS and ABS when the AMS starts or finishes the E-MBS reception. For synchronization of paging carrier between AMS and ABS, AMS should inform the ABS of the start or termination of E-MBS reception.

Suggested Remedy

Adopt the Text proposal in C802.16m-10/1006 or the latest revision of the contribution.

GroupResolution

Decision of Group: Principle

Modify page 318 line 34 as indicated:

For an E-MBS AMS the AAI_PAG-ADV message ~~may~~ shall be transmitted in the same carrier as the ~~dedicated~~ carrier ~~for~~ 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 operation

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Young Soo Yuk

Membership Status:

Date:

Comment # A298

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 319 Line 26 Fig/Table# Subclause 16.2.8.2.11

In the multi-carrier operation, we can consider a scenario that the several assigned carriers have smaller coverage than primary carrier or active secondary carrier. Under this scenario, the channel quality information for the inactive secondary carrier(s) will be beneficial to the carrier management of ABS. However, current text doesn't have any scanning trigger definition for these inactive carriers. In this contribution, therefore, we propose to define the trigger condition definitions for carrier management, i.e., secondary carrier activation and primary carrier change.

Suggested Remedy

Adopt the Text proposal in C802.16m-10/1003 or the latest revision of the contribution.

GroupResolution

Decision of Group: Principle

Adopt the Text proposal in C802.16m-10/1003r3.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Young Soo Yuk

Membership Status:

Date:

Comment # A299

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 463 Line 45 Fig/Table# Subclause 16.3.3.6.2

The definition on non-contiguous carrier is not clear.

Suggested Remedy

"When two adjacent carriers both contain AAI zone and WirelessMAN-OFDMA zone, they will be treated as two non-contiguous carriers and be indicated by <ins>considered as</ins> different carrier group in the AAI_Global-Config message."

GroupResolution

Decision of Group: Principle

Modify the text (line 45, page 463) as follows:

When two adjacent <ins>, but sub-carrier non-aligned</ins> carriers both contain AAI zone and WirelessMAN-OFDMA zone, they will be treated as two non-contiguous carriers and be indicated by <ins>are included in</ins> different carrier group in the AAI_Global-C<ins>FG</ins>onfig message.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.3, PHY: Frame structure (Multicarrier)

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Young Soo Yuk

Membership Status:

Date:

Comment # A300

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 870 Line 33 Fig/Table# Subclause 16.9.2.4

Interruption time from carrier switching operation yields abnormal HARQ operation. We propose a simple modification of HARQ operation to support carrier switching mode.

Suggested Remedy

Adopt the Text proposal in C802.16m-10/1007 or the latest revision of the contribution.

GroupResolution

Decision of Group: Principle

Adopt the Text proposal in C802.16m-10/1007r2

Reason for Group's Decision/Resolution

Vote:

In favor: 14

Opposed: 1

Abstain:

Group's Notes

Clause 16.9, Other: eMBS

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Kanchei Loa

Membership Status:

Date:

Comment # **A301**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **822** Line **25** Fig/Table# Subclause **16.5.1.3.1**

The current multi-BS MIMO sounding phase calibration scheme for DL/UL mismtach could be optimized by a phase differetial approach to reduce calibration overheads. The optimized scheme is proposed in C80216m-10_0985

Suggested Remedy

Accept C80216m-10_0985

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

The proposal actually increases the sounding channel overhead.

Group's Notes

Clause 16.5, Other: Multi-BS MIMO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Roger Marks

Membership Status:

Date:

Comment # A302

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page i Line 15 Fig/Table# Subclause Introduction

IEEE 802.16h-2009 is the incorrect designation.

Suggested Remedy

Change IEEE 802.16h-2009 to IEEE 802.16h-2010.

GroupResolution

Decision of Group: Agree

Change IEEE 802.16h-2009 to IEEE 802.16h-2010.

Reason for Group's Decision/Resolution

Group's Notes

Frontmatter, General: Frontmatter

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Shiann-Tsong Sheu

Membership Status:

Date:

Comment # A303

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type General Part of Dis Satisfied Page 822 Line 25 Fig/Table# Subclause 16.5.1.3.1

A modification of generation of calibration sounding sequence is proposed. With the help of calibration sounding sequence, the mismatch of DL/UL phase can be eliminated, in order to further improve the sounding transmission efficiency.

Suggested Remedy

Adopt the contribution C80216m-10/0985

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The proposal actually increases the sounding channel overhead.

Group's Notes

Clause 16.5, Other: Multi-BS MIMO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Roger Marks

Membership Status:

Date:

Comment # **A304**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 1 Line 31 Fig/Table# Subclause Title Page

fails to recognize a previous amendment

Suggested Remedy

After "existing base standard IEEE Std 802.16-2009 as amended by IEEE Std 802.16j ", add "and IEEE Std 802.16h "

GroupResolution

Decision of Group: Agree

After "existing base standard IEEE Std 802.16-2009 as amended by IEEE Std 802.16j ", add "and IEEE Std 802.16h "

Reason for Group's Decision/Resolution

Group's Notes

Frontmatter, General: Frontmatter

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Roger Marks

Membership Status:

Date:

Comment # A305

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 36 Line 24 Fig/Table# Subclause 11.1.3

Term "IEEE Std 802.16m-2010" presumes approval of this draft in 2010. That is unlikely.

Suggested Remedy

Change "IEEE Std 802.16m-2010" to "IEEE Std 802.16m-2011", which is a likely designation.

GroupResolution

Decision of Group: Agree

Change "IEEE Std 802.16m-2010" to "IEEE Std 802.16m-2011", which is a likely designation.

Reason for Group's Decision/Resolution

Group's Notes

Clause 11, MAINTENANCE: TLV encodings

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Shiann-Tsong Sheu

Membership Status:

Date:

Comment # A306

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 822 Line 25 Fig/Table# Subclause 16.5.1.3.1

A modification of generation of calibration sounding sequence is proposed. With the help of calibration sounding sequence, the mismatch of DL/UL phase can be eliminated, in order to further improve the sounding transmission efficiency.

Suggested Remedy

Adpot the contribution C80216m-10/0985

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The proposal actually increases the sounding channel overhead.

Group's Notes

Clause 16.5, Other: Multi-BS MIMO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Roger Marks

Membership Status:

Date:

Comment # **A307**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment

Type Editorial

Part of Dis

Satisfied

Page xxvii

Line 0

Fig/Table#

Subclause

Page Header

On Page xxvii, and subsequent odd-numbered pages in the List of Tables, the header is incorrect: "IEEE P802.16m/D6a UNOFFICIAL DRAFT"

Suggested Remedy

Correct the header.

GroupResolution

Decision of Group: Agree

Correct the header.

Reason for Group's Decision/Resolution

Group's Notes

Frontmatter, General: Frontmatter

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Roger Marks

Membership Status:

Date:

Comment # **A308**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **831** Line **37** Fig/Table# Subclause **16.6.2.9.1.1**

16.6.2.9.1.1 includes many references to the undefined symbol "16m". This certainly cannot be used as a reference to the 802.16m specification. The problem occurs at least once on each of pages 832-839.

Suggested Remedy

Replace all references to "16m" with terminology that will remain valid even after the 802.16m amendment is consolidated into the base standard.

GroupResolution

Decision of Group: **Principle**

Replace 16m with AAI throughout the document.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Shih-Yuan Cheng

Membership Status:

Date:

Comment # A309

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 108 Line 3 Fig/Table# Subclause 16.2.3.11

Clarify the Table 691 AAI_HO-CMD parameters.

Suggested Remedy

Adopt text proposal of C80216m-10/1013 or its latest version.

GroupResolution

Decision of Group: Principle

Resolved by comment #255

Resolution:

Adopt text proposal in contribution C802.16m-10/1060r5

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Roger Marks

Membership Status:

Date:

Comment # A310

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 65 Line Fig/Table# Subclause 16.2.2.2.11

The draft includes many references to the undefined symbol "16m". This certainly cannot be used as a reference to the 802.16m specification. The problem occurs on many pages, including 65, 155, 227, 267, 273, 300, 303, 698, 845.

Suggested Remedy

Replace all references to "16m" with terminology that will remain valid even after the 802.16m amendment is consolidated into the base standard.

GroupResolution

Decision of Group: Principle

P65 L62 delete "16m"

P155 L49 replace "16m" with "AAI"

P227 replace all occurrences of "16m" with "AAI"

P267 L3 delete "of 16m"

P273 L64 "The selective confidentiality protection over control messages is the<ins>a</ins> mandatory feature of 16m and the negotiated keying materials/ciphersuites are used to encrypt the control messages."

P300 L30 delete "16m"

P303 L55 delete "16m"

P698 F546 replace "16m" with "AAI" all occurrences

P845 L1 delete "16m"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions a) done

16.6 changes by SP

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Youn-Tai Lee

Membership Status:

Date:

Comment # **A311**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **822** Line **25** Fig/Table# Subclause **16.5.1.3.1**

To improve the current multi-BS MIMO sounding phase calibration scheme for DL/UL mismatch, a phase differential approach is proposed to reduce calibration overhead.

Suggested Remedy

Adopt contribution C80216m-10_0985.doc or its latest revision.

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

The proposal actually increases the sounding channel overhead.

Group's Notes

Clause 16.5, Other: Multi-BS MIMO; LMAC + Others

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Bin Chen

Membership Status:

Date:

Comment # **A312**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **214** Line **34** Fig/Table# Subclause **16.2.3.49**

Group resource management need to be enhanced for future new services

Suggested Remedy

adopt proposal changes in contributions 80216m-10_1079 or its latest version.

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

It's a rare case if more than two flows of an AMS are added into one or more groups. At that time the ABS will transmit the multiple AAI_GRP-CFG messages to the AMS. It's not a big overhead.

Please see the text in page 325, line 33, "The deletion from the current group can be implicit if the flow is reassigned to a group by setting the Deletion Flag to 0." To support this operation, a FID should be added to only a group, and addition or deletion of more than one FID in a message is not needed.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Roger Marks

Membership Status:

Date:

Comment # A313

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 273 Line 52 Fig/Table# Subclause 16.2.5.3.2

The title of Fig 406 refers to "802.16m", which cannot be used since the number is related to a temporary amendment.

Suggested Remedy

Delete "in IEEE 802.16m" from title.

GroupResolution

Decision of Group: Agree

Delete "in IEEE 802.16m" from title.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Bin Chen

Membership Status:

Date:

Comment # **A314**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **323** Line **42** Fig/Table# Subclause **16.2.9.2**

In the last sponsor ballot in July, the contribution about C80216m-10_0772r2.doc was adopted which was to fix a problem of group resource allocation issue in D6 that exposed the all the resource allocation information to all the MSs in a group, but the contribution did not change all the texts that need to be changed.

Suggested Remedy

adopt the proposed text changes in the contribution C80216m-10_1037 or its latest version

GroupResolution

Decision of Group: **Principle**

[Editor's Note 1 : change the text in page 323, starting on line 42]

The ABS configures a HARQ Burst Size Set for each ~~flow within a~~ group~~.~~ The HARQ burst size set supports four HARQ burst sizes. The Group Configuration MAC control message signaled to ~~add~~ a flow ~~of an AMS to a group~~ contains the HARQ burst sizes assigned to ~~the flows~~ group. The assigned HARQ burst sizes to a flow in the group shall be chosen from the configured set.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.9, MAC: Group Resource Allocation

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Roger Marks

Membership Status:

Date:

Comment # A315

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 883 Line 60 Fig/Table# Subclause 16.12

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

Adopt remedy in IEEE C802.16m-10/0409.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

Proposed text is incomplete (incorrect references, contribution needs to be updated to reflect the contents of the current draft and to include other clauses).

Group's Notes

Clause 16.12, Other: NEW

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Bin Chen

Membership Status:

Date:

Comment # **A316**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 100 Line 37 Fig/Table# Subclause 16.2.3.8

Current 16m radio resource allocation mechanism includes physical resource permutation to logical resource unit, and A-MAP resource allocation. The permutation is defined in the standard text and known by all the terminals, while A-MAP is broadcast in a all known place with pre-defined MCS. Every AMS in the cell can detect and decode all the A-MAP, no matter whether it is the intended one. It just uses a STID to mask the CRC to check whether the A-MAPs are for itself.

The security problem is that a cracker can decode all the A-MAPs, and try all the STID to calculate the CRC. Since the 16 bits CRC is masked with 12 bits STID plus 4 fixed bits, the error detection rate will be very low for current 16 bits CRC algorithm. So that the cracker can receive all MAC frames and send them to background high quality calculating system to save and decrypt.

Suggested Remedy

adopt the proposed changes in contribution C80216m-10_1080. In this contribution, a simple method to make the A-MAP save with no additional overhead is proposed. The main idea is to set a mask ID to mask the resource index in the A-MAP IE before CRC calculating.

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

The security is not physical layer issue but an issue of MAC layer or the above layer. 16m already uses the MAC security. Therefore for an AMS to decode the packet which is not intended to the AMS is not a security problem.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; LMAC + Others

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Roger Marks

Membership Status:

Date:

Comment # A317

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type General Part of Dis Satisfied Page iii Line 34 Fig/Table# Subclause Participants

On Page iii, the list of Working Group Letter Ballot participants is missing most of them.

Suggested Remedy

Continue list beyond the letter "C", all the way to "Z".

GroupResolution

Decision of Group: Agree

Continue list beyond the letter "C", all the way to "Z".

Reason for Group's Decision/Resolution

Group's Notes

Frontmatter, General: Frontmatter

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Roger Marks

Membership Status:

Date:

Comment # **A318**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page xxxii Line Fig/Table# Subclause List of Tables

On Page xxxii and xxxiii, many table titles include the incorrect term "Dfc", which is automatically generated from table titles including a "delta" symbol. Also, titles that include parenthesis sometimes get broken when truncated.

Suggested Remedy

Reconstruct the table titles by removing the delta-f range from the title of the tables and moving it to the body.

GroupResolution

Decision of Group: **Agree**

Reconstruct the table titles by removing the delta-f range from the title of the tables and moving it to the body.

Reason for Group's Decision/Resolution

Group's Notes

Frontmatter, General: Frontmatter

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Ying Li

Membership Status: Member

Date: 2010-08-12

Comment # A10001

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page Line Fig/Table# Subclause 16.4

In the current draft D7, to support femtocells, several MAC messages include fields for femtocell CSGIDs. However, the format of how to include the CSGIDs is not clear.
Our proposal is to fix it.

Suggested Remedy

Please adopt the text in contribution C80216m-10_1046 or its latest version.

GroupResolution

Decision of Group: Agree

Adopt the resolution proposed in the contribution C80216m-10_1046r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions a) done

Comment by: Kiseon RyuMembership Status: MemberDate: 2010-08-13Comment # A10002Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 42 Line 55 Fig/Table# Subclause 16.2.1.2.2

There are two conflict texts regarding E-MBS FID in 16.2.1.2.5 E-MBS Identifier and 16.2.2.1.1 Advanced Generic MAC Header (AGMH), which should be clarified.

*A 12-bit value that is used **along with a 4-bits long FID (see 16.2.1.2.2)** to uniquely identify a specific E-MBS flow in the domain of an E-MBS zone (see 16.9.3.2).*

*The AGMH format is defined in Table 653. **For E-MBS services, the FID shall be ignored by the receiver.***

Suggested Remedy

Remedy 1. Modify the text on page 42, line 55, as follows.

16.2.1.2.2 Flow Identifier (FID)

Each AMS connection is assigned a 4 bit FID that uniquely identifies the connection within the AMS. FIDs identify control connection and unicast transport connections ~~<ins>along with 12 bits STID assigned by the encrypted AAI_REG-RSP message. FID for E-MBS connection is used along with a 12 bit value assigned by the AAI_DSx message to uniquely identify a specific E-MBS flow in the domain of an E-MBS zone (see 16.9.3.2)</ins>~~.

Remedy 2. Modify the text on page 44, line 14, as follows.

16.2.2.1.1 Advanced Generic MAC Header (AGMH)

The AGMH format is defined in Table 653. ~~For E-MBS services, the FID shall be ignored by the receiver.~~

GroupResolutionDecision of Group: Principle

Modify the text on page 42, line 55, as follows.

16.2.1.2.2 Flow Identifier (FID)

Each AMS connection is assigned a 4 bit FID that uniquely identifies the connection within the AMS. FIDs identify control connection and unicast transport connections. ~~<ins>FID for E-MBS connection is used along with a 12-bit E-MBS ID to uniquely identify a specific E-MBS flow in the domain of an E-MBS zone (see 16.9.3.2)</ins>~~.

Modify text P42, end of L65:

~~<ins>An FID in combination with an STID uniquely identifies any connection in an ABS.</ins>~~

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.1, MAC: Addressing

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Kiseon Ryu

Membership Status: Member

Date: 2010-08-13

Comment # **A10003**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 42 Line 63 Fig/Table# Subclause 16.2.1.2.2

Not only FID 0010 but FID 0000, 0001, and 0011 are pre-assigned.

Suggested Remedy

Modify the text on page 43, line 43, as follows.

Some specific FIDs ~~may be~~ are pre-assigned. ~~If the value is 0010 it indicates that the MAC-PDU is signaling header.~~ The values of 0000 and 0001 are used to indicate control FIDs. The values of 0010 and 0011 are used to indicate FID for signaling header and FID for default service flow respectively.

GroupResolution

Decision of Group: Principle

Modify the text on page 42, line 63, as follows.

Some specific FIDs ~~may be~~ are pre-assigned. ~~If the value is 0010 it indicates that the MAC-PDU is signaling header.~~ The values of 0000 and 0001 are used to indicate control FIDs. The values of 0010 and 0011 are used to indicate FID for signaling header and FID for default service flow respectively.

P43 L32

~~(excluding one for default service flow)~~

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.1, MAC: Addressing

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10004

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 43 Line 28 Fig/Table# Subclause 16.2.1.2.3

A new DID may be assigned during location update.

Suggested Remedy

The network shall assign a 12bit 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.

GroupResolution

Decision of Group: Agree

P43 L28:

The network shall assign a 12bit 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.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.1, MAC: Addressing

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10005

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 45 Line 40 Fig/Table# 655 Subclause 16.2.2.1.3

Reserved field is not a field included in the Signaling Header format. It may be a sub-field of 'Contents'.

Suggested Remedy

[Modify the texts in 'Notes' field for 'Length' field as follows]

Indicates the length of the signaling header (includes the FID, Type, Length, ~~reserved field~~ and contents):

GroupResolution

Decision of Group: Agree

[Modify the texts in 'Notes' field for 'Length' field as follows]

Indicates the length of the signaling header (includes the FID, Type, Length, ~~reserved field~~ and contents):

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10006

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 46 Line 45 Fig/Table# 657 Subclause 16.2.2.1.3.1

FID for signaling header was changed from '0001' to '0010' in the last meeting.

Suggested Remedy

Change the value of 'FID' from '0001' to '0010' in Table 657, 658, 659, 660, 661, 662, 663 and 664.

GroupResolution

Decision of Group: Agree

Change the value of 'FID' from '0001' to '0010' in Table 657, 658, 659, 660, 661, 662, 663 and 664.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions a) done

Comment by: Taeyoung Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10007

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 53 Line 29 Fig/Table# Subclause 16.2.2.1.3.7

It's not clear to operate the these two signaling headers. So, I've modified the description for the operation of two signaling headers.

Suggested Remedy

[Remedy-1: Modify the text in line 29, page 53 as below]

This signaling header <ins>is</ins> may be used by AMS as a response to a Feedback Polling A-MAP IE requesting the quantized transmit correlation matrix when the AMBS is equipped with 2 or 4 transmit antennas.

[Remedy-2: Modify the text in line 19, page 54 as below]

This MIMO feedback header is defined in Table 664. This <ins>signaling</ins> header is used by AMS <ins>as a response to a Feedback Polling A-MAP IE</ins> to send only the wideband information for any combinations of MFM 0, 4, 7 with q=0.

GroupResolution

Decision of Group: Agree

[Remedy-1: Modify the text in line 29, page 53 as below]

This signaling header <ins>is</ins> may be used by AMS as a response to a Feedback Polling A-MAP IE requesting the quantized transmit correlation matrix when the AMBS is equipped with 2 or 4 transmit antennas.

[Remedy-2: Modify the text in line 19, page 54 as below]

This MIMO feedback header is defined in Table 664. This <ins>signaling</ins> header is used by AMS <ins>as a response to a Feedback Polling A-MAP IE</ins> to send only the wideband information for any combinations of MFM 0, 4, 7 with q=0.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10008

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 55 Line 56 Fig/Table# 665 Subclause 16.2.2.2

The sentence 'This field is also set to 0 if there is no extended header.' is redundant and misleading. If there is no extended header, then extended header group itself can not be present.

Suggested Remedy

Extended Headers Length Indicator

This field is always set to 0 in a MAC PDU with SPMH. ~~This field is also set to 0 if there is no extended header.~~

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

extended head can be present without extended header

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10009

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 55 Line 61 Fig/Table# 665 Subclause 16.2.2.2

The sentence 'If there is no extended header, EH Length shall be set to 1.' is redundant and misleading. If there is no extended header, then extended header group itself can not be present.

Suggested Remedy

Indicate the length of Extended Header Group = the length of extended headers + 1. ~~If there is no extended header, EH Length shall be set to 1.~~

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

extended head can be present without extended header

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions b) none needed

Comment by:

Anil Agiwal

Membership Status: MemberDate: ?Comment # A10010Document under Review: P802.16m/D7Ballot ID: sb_16m

<u>Comment</u>	<u>Type</u> Technical	<u>Part of Dis</u> <input type="checkbox"/>	<u>Satisfied</u> <input type="checkbox"/>	<u>Page</u> 59	<u>Line</u> 37	<u>Fig/Table#</u>	<u>Subclause</u> 16.2.2.2.3
----------------	-----------------------	---	---	----------------	----------------	-------------------	-----------------------------

Comment # 096 which was resolved in Meeting #68, is not correctly implemented. The proposed text is added in MCEH section instead of MEH.

Suggested Remedy

Modify the text as follows:

Change1: page 59, line 37-48

16.2.2.2.3 MAC Control extended header (MCEH)

The MAC PDU shall include MCEH when the control connection payload contains a fragmented message or an unfragmented message that requires acknowledgement. When message fragments belonging to two different control messages are being sent, the transmitter shall assign different Control Connection Channel ID (CCC ID)s to the MCEH of each MAC PDU. The MCEH format is defined in Table 670. For each FID occurring in the AGMH and MEH, there may be at most one associated extended header within the group consisting of FEH, PEH, RFPEH, and MCEH. The presence of such a header is indicated by the EH bitmap field in the MEH. These headers shall follow the MEH in the order of their corresponding payloads.

Change2: page 60, line 30-40

16.2.2.2.4 Multiplexing extended header (MEH)

The format of MEH is defined in Table 671. The MEH is used when multiple connection payloads associated with the same security association is present in the MAC PDU. The MEH shall not be added in a MAC PDU with SPMH. The AGMH carries the FID corresponding to the payload of the first connection payload. MEH carries the FIDs corresponding to remaining connection payloads. Payloads from the same or different connections may be multiplexed.<ins> For each FID occurring in the AGMH and MEH, there may be at most one associated extended header within the group consisting of FEH, PEH, RFPEH, and MCEH. The presence of such a header is indicated by the EH bitmap field in the MEH. These headers shall follow the MEH in the order of their corresponding payloads.</ins>

GroupResolutionDecision of Group: Agree

Modify the text as follows:

Change1: page 59, line 37-48

16.2.2.2.3 MAC Control extended header (MCEH)

The MAC PDU shall include MCEH when the control connection payload contains a fragmented message or an unfragmented message that requires acknowledgement. When message fragments belonging to two different control messages are being sent, the transmitter shall assign different Control Connection Channel ID (CCC ID)s to the MCEH of each MAC PDU. The MCEH format is defined in Table 670. ~~For each FID occurring in the AGMH and MEH, there may be at most one associated extended header within the group consisting of FEH, PEH, RFPEH, and MCEH. The presence of such a header is indicated by the EH bitmap field in the MEH. These headers shall follow the MEH in the order of their corresponding payloads. ~~

Change2: page 60, line 30-40

16.2.2.2.4 Multiplexing extended header (MEH)

The format of MEH is defined in Table 671. The MEH is used when multiple connection payloads associated with the same security association is present in the MAC PDU. The MEH shall not be added in a MAC PDU with SPMH. The AGMH carries the FID corresponding to the payload of the first connection payload. MEH carries the FIDs corresponding to remaining connection payloads. Payloads from the same or different connections may be multiplexed. For each FID occurring in the AGMH and MEH, there may be at most one associated extended header within the group consisting of FEH, PEH, RFPEH, and MCEH. The presence of such a header is indicated by the EH bitmap field in the MEH. These headers shall follow the MEH in the order of their corresponding payloads. </ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions a) done

Comment by:

Jaesun Cha

Membership Status: MemberDate: ?Comment # A10011Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 59 Line 46 Fig/Table# Subclause 16.2.2.2.3

EH bitmap is a wrong name. The correct name is EH_indicator bitmap.

Suggested Remedy

The presence of such a header is indicated by the EH indicator bitmap field in the MEH. These headers shall follow the MEH in the order of their corresponding payloads.

GroupResolution**Decision of Group: Principle**

Resolved by comment #10010.

Resolution:

Modify the text as follows:

Change1: page 59, line 37-48

16.2.2.2.3 MAC Control extended header (MCEH)

The MAC PDU shall include MCEH when the control connection payload contains a fragmented message or an unfragmented message that requires acknowledgement. When message fragments belonging to two different control messages are being sent, the transmitter shall assign different Control Connection Channel ID (CCC ID)s to the MCEH of each MAC PDU. The MCEH format is defined in Table 670. For each FID occurring in the AGMH and MEH, there may be at most one associated extended header within the group consisting of FEH, PEH, RFPEH, and MCEH. The presence of such a header is indicated by the EH bitmap field in the MEH. These headers shall follow the MEH in the order of their corresponding payloads.

Change2: page 60, line 30-40

16.2.2.2.4 Multiplexing extended header (MEH)

The format of MEH is defined in Table 671. The MEH is used when multiple connection payloads associated with the same security association is present in the MAC PDU. The MEH shall not be added in a MAC PDU with SPMH. The AGMH carries the FID corresponding to the payload of the first connection payload. MEH carries the FIDs corresponding to remaining connection payloads. Payloads from the same or different connections may be multiplexed. For each FID occurring in the AGMH and MEH, there may be at most one associated extended header within the group consisting of FEH, PEH, RFPEH, and MCEH. The presence of such a header is indicated by the EH bitmap field in the MEH. These headers shall follow the MEH in the order of their corresponding payloads.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Anil Agiwal

Membership Status: Member

Date: ?

Comment # **A10012**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 60 Line 38 Fig/Table# Subclause 16.2.2.2.4

Multiplexing is not an alternate to packing.

So for the payloads for the same connection, multiplexing may be used only if packing cannot be applied.

For e.g in an ARQ connection, the ARQ blocks for initial transmission and ARQ blocks for retransmission can not be packed in same connection payload. So PDUs one having ARQ blocks for initial transmission and another having ARQ blocks for retransmission will be formed. These two PDUs can be sent using two MAC PDUs or they can be multiplexed in same MAC PDU using MEH.

Suggested Remedy

Modify the lines 38-40, page 60, section 16.2.2.2.4 as follows:

Payloads from the same or different connections may be multiplexed. <ins>Payloads from the same connection may be multiplexed if they can not be packed using packing defined in 16.2.4.5.</ins>

GroupResolution

Decision of Group: Agree

Modify the lines 38-40, page 60, section 16.2.2.2.4 as follows:

Payloads from the same or different connections may be multiplexed. <ins>Payloads from the same connection may be multiplexed if they can not be packed using packing defined in 16.2.4.5.</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10013

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 62 Line 3 Fig/Table# Subclause 16.2.2.2.5

MAEH is not used to indicate the reception of signaling header any longer.

Suggested Remedy

adopt texts in C80216m-10/0956

GroupResolution

Decision of Group: Agree

adopt texts in C80216m-10/0956

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yuqin Chen

Membership Status: Member

Date: 2010-08-13

Comment # A10014

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 62 Line 8 Fig/Table# Subclause 16.2.2.2.5

Based on the MAEH format, the described header here should be Service Specific Scheduling Control header.

Suggested Remedy

Modify the sentence (from line 8 on page 62) of P802.16m/D7 as follows.

"This header may be used by ABS and AMS to indicate the reception of a specific, previously received MAC control message, Service Specific Scheduling Control header ~~BR without STID header~~ (see 16.2.2.1.3.3~~2~~)."

GroupResolution

Decision of Group: Principle

Resolved by comment #10013.

Resolution:

adopt texts in C80216m-10/0956

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Anil Agiwal

Membership Status: Member

Date: ?

Comment # A10015

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 63 Line 19 Fig/Table# Subclause 16.2.2.2.7

Comment # 0495 which was resolved in Meeting #68, with the proposed text in contribution # 766r1 is not correctly implemented.

MLEH needs to be deleted as per 766r1

Suggested Remedy

Delete section 16.2.2.2.7 and table 674 on page 63.

GroupResolution

Decision of Group: Agree

Delete section 16.2.2.2.7 and table 674 on page 63.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10016

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 63 Line 19 Fig/Table# Subclause 16.2.2.2.7

In the last meeting, we agreed to put 'MPDU length extension' field into Extended Header Group to represent the length of long MAC PDU instead of MLEH. Therefore, MLEH is not needed any longer.

Suggested Remedy

Delete subclause 16.2.2.2.7 in its entirety.

GroupResolution

Decision of Group: Principle

Resolved by comment #10015.

Resolution:

Delete section 16.2.2.2.7 and table 674 on page 63.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Youngbin Chang

Membership Status: Member

Date: 2010-08-13

Comment # A10017

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 64 Line 14 Fig/Table# 675 Subclause 16.2.2.2.8

- 1. Reference section correction
- 2. Byte alignment of extended header.

Suggested Remedy

```

=====
ARQ Feedback IE(s) || variable || see 16.2.13.+2.1
=====
Reserved           || 4           || For byte alignment
=====
}                   ||           ||
=====

```

GroupResolution

Decision of Group: Agree

```

=====
ARQ Feedback IE(s) || variable || see 16.2.13.+2.1
=====
Reserved           || 4           || For byte alignment
=====
}                   ||           ||
=====

```

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.2, MAC: MAC PDU formats

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Anil Agiwal

Membership Status: Member

Date: ?

Comment # A10018

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 66 Line 34 Fig/Table# Subclause 16.2.3

FID values needs correction.

FID 0x0 is for unecrypted message and FID 0x1 is for encrypted message.

Suggested Remedy

Modify the lines 34-35, page 66, section 16.2.3 as follows:

The indication to the receiver that the MAC PDU is encrypted or not is indicated by the <ins>FID</ins>FlowID
0x0<ins>0x1</ins> and 0x1<ins>0x0</ins> in AGMH respectively.

GroupResolution

Decision of Group: Agree

Modify the lines 34-35, page 66, section 16.2.3 as follows:

The indication to the receiver that the MAC PDU is encrypted or not is indicated by the <ins>FID</ins>FlowID
0x0<ins>0x1</ins> and 0x1<ins>0x0</ins> in AGMH respectively.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

Comment by:

Kiseon Ryu

Membership Status: MemberDate: 2010-08-13Comment # A10019Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 71 Line 32 Fig/Table# 679 Subclause 16.2.3

AAI_MSG-ACK is a unicast MAC control message to be specified security level. AAI_MSG-ACK should be encrypted and integrity protected to provide MAC control reliability with secure manner.

Suggested Remedy

Replace N.A. with Encrypted/ICV in the security field in AAI_MSG-ACK as follows.

Table 679—MAC Control Messages

64 AAI_MSG-ACK MAC message acknowledgement N.A. <ins>Encrypted/ICV </ins>

GroupResolutionDecision of Group: Agree

Replace N.A. with Encrypted/ICV in the security field in AAI_MSG-ACK as follows.

Table 679—MAC Control Messages

64 AAI_MSG-ACK MAC message acknowledgement N.A. <ins>Encrypted/ICV </ins>

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's NotesEditor's Actions a) done

Comment by: Eunkyung Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10020

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 71 Line 35 Fig/Table# 679 Subclause 16.2.3

Functional Area of AAI_E-MBS-CFG is E-MBS

Suggested Remedy

[modify the following rows in Table 679 - MAC Control Messages]

No.	Functional Areas	Message names	Message Description	Security	Connection
...
65	<ins>E-MBS</ins> AAI_E-MBS-CFG	E-MBS Configuration	Null	Broadcast	
...

GroupResolution

Decision of Group: Agree

[modify the following rows in Table 679 - MAC Control Messages]

No.	Functional Areas	Message names	Message Description	Security	Connection
...
65	<ins>E-MBS</ins> AAI_E-MBS-CFG	E-MBS Configuration	Null	Broadcast	
...

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; LMAC + Others

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Heejeong Cho

Membership Status: Nonmember

Date: ?

Comment # A10021

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 71 Line 52 Fig/Table# Subclause 16.2.3.1

Editorial comment

Suggested Remedy

An AMS shall generate AAI_RNG-REQ message containing parameters according to the usage of the AAI_RNG-REQ message: <ins>.</ins>

GroupResolution

Decision of Group: Agree

An AMS shall generate AAI_RNG-REQ message containing parameters according to the usage of the AAI_RNG-REQ message: <ins>.</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

Comment by:

Kiseon Ryu

Membership Status: MemberDate: 2010-08-13Comment # A10022Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 80 Line 5 Fig/Table# 681 Subclause 16.2.3.2

HO Process Optimization in AAI_RNG-RSP has been changed to Reentry Process Optimization.

Suggested Remedy

Change 'HO' to 'Reentry' in Conditions column for Resource_Retain_Time attribute as follows.

Table 681—AAI_RNG-RSP message Field Descriptions

O	Resource_Retain_Time	8	The time when the serving ABS discards AMS's context	May be included if HO <ins>Reentry</ins> Process Optimization Bit #3 is set to 1.
---	----------------------	---	---	---

GroupResolutionDecision of Group: Agree

Change 'HO' to 'Reentry' in Conditions column for Resource_Retain_Time attribute as follows.

Table 681—AAI_RNG-RSP message Field Descriptions

O	Resource_Retain_Time	8	The time when the serving ABS discards AMS's context	May be included if HO <ins>Reentry</ins> Process Optimization Bit #3 is set to 1.
---	----------------------	---	---	---

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's NotesEditor's Actions a) done

Comment by:

Kiseon Ryu

Membership Status: MemberDate: 2010-08-13Comment # A10023Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 81 Line 20 Fig/Table# 681 Subclause 16.2.3.2

Condition column for SAID_update_bitmap attribute in AAI_RNG-RSP is empty.

Suggested Remedy

Add the text to describe the condition for Resource_Retain_Time attribute as follows.

Table 681—AAI_RNG-RSP message Field Descriptions

O	SAID_update_bitmap	16	Bitmap for indicating the specific FID(s) that are being updated to SAID of AES-CTR	<ins> Shall be included if specific FID(s) is to be re-mapped to SAID of AES-CTR in case of Zone Switch from LZone to MZone </ins>
---	--------------------	----	---	--

GroupResolutionDecision of Group: Principle

Add the text to describe the condition for Resource_Retain_Time attribute as follows.

Table 681—AAI_RNG-RSP message Field Descriptions

O	SAID_update_bitmap	16	Bitmap for indicating the specific FID(s) that are being updated to SAID of AES-CTR	<ins> Shall be included if specific FID(s) are to be re-mapped to SAID of AES-CTR in case of Zone Switch from LZone to MZone </ins>
---	--------------------	----	---	---

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's NotesEditor's Actions a) done

Comment by: Eunkyung Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10024

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 82 Line 21 Fig/Table# 681 Subclause 16.2.3.2

The term of service flow update in AAI_RNG-RSP to support E-MBS should be defined clearly.

Suggested Remedy

[modify the following rows in Table 681 - AAI_RNG-RSP]

O	F.2) FID	4	<ins>New </ins>Flow ID	
O	G) fullEMBSIdFidMappin- gArr[1..16]	Variable	Mapping of current E-MBS ID and FID and new E-MBS ID and FID to update the service flow.	Presented only if Service_flow_update_in dicator is set to 0b1.
O	H.1) Current_E-MBS ID	12	Current E-MBS identifier	
O	H.2) Current FID	4	Current Flow ID	
O	H.3) New_E-MBS ID	12	New E-MBS identifier	
O	H.4) New FID	4	Current <ins>New</ins> Flow ID	

GroupResolution

Decision of Group: Agree

[modify the following rows in Table 681 - AAI_RNG-RSP]

O	F.2) FID	4	<ins>New </ins>Flow ID	
O	G) fullEMBSIdFidMappin- gArr[1..16]	Variable	Mapping of current E-MBS ID and FID and new E-MBS ID and FID to update the service flow.	Presented only if Service_flow_update_in dicator is set to 0b1.
O	H.1) Current_E-MBS ID	12	Current E-MBS identifier	

O	H.2) Current FID	4	Current Flow ID	
O	H.3) New_E-MBS ID	12	New E-MBS identifier	
O	H.4) New FID	4	Current	
			<ins>New</ins> Flow ID	

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; LMAC + Others

Editor's Notes

Editor's Actions a) done

Comment by:

Chiwoo Lim

Membership Status:

Nonmember

Date: 2010-08-13Comment # **A10025**Document under Review: **P802.16m/D7**Ballot ID: **sb_16m**Comment Type **Technical** Part of Dis Satisfied Page **85** Line **6** Fig/Table# **682** Subclause **16.2.3.3**

There is a wrong implemented parameter in AAI_RNG-ACK message.

The size of 'Timining offset adjustment' shall be 15bits by comment #302 and contribution #113r1 in session #66.

However, it is 5bits in D7. So, we have to modify this.

In addition, it's not clear the meaning of 'signed' in the Note. So, we also need to clarify this.

Suggested Remedy

Modify the size of 'Timining offset adjustment' in AAI_RNG-ACK message.

 5 <ins>15 </ins>

Add the follwoing text in the Value/Note column of 'Timining offset adjustment' in AAI_RNG-ACK message.

<ins>[The AMS shall advance its transmission time if the value is negative and delay its transmission time if the value is positive.](#)</ins>

GroupResolution**Decision of Group: Agree**

Modify the size of 'Timining offset adjustment' in AAI_RNG-ACK message.

 5 <ins>15 </ins>

Add the follwoing text in the Value/Note column of 'Timining offset adjustment' in AAI_RNG-ACK message.

<ins>[The AMS shall advance its transmission time if the value is negative and delay its transmission time if the value is positive.](#)</ins>

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

Clause 16.2.3, MAC: MAC Control messages; MAC NE

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yuqin Chen

Membership Status: Member

Date: 2010-08-13

Comment # A10026

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 86 Line 27 Fig/Table# Subclause 16.2.3.4

AMS basic capability negotiation is done by SBC-REQ/RSP messages(Table 683 and 684), in which "Capability_Index" is applied. But how to map the explicit parameters to the Capability_Index is not defined yet.

Suggested Remedy

Suggest to fit this hole.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

There is no specific remedy.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions b) none needed

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10027

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 86 Line 33 Fig/Table# Subclause 16.2.3.4

CAPABILITY_INDEX can be used to express AMS's capabilities, but it does not mean maximum capabilities that AMS can support. Content of AAI_SBC-REQ message implies maximum capabilities that AMS can support. Additionally description about length of CAPABILITY_INDEX are not required and even it is wrong. (CAPABILITY_INDEX be 5bit long.)

Suggested Remedy

~~In Table 682, the CAPABILITY_INDEX transmitted in the AAI_SBC-REQ message refers to the maximum Capability Class that the AMS can support. The maximum value of CAPABILITY_INDEX is denoted by 8bits.~~

GroupResolution

Decision of Group: Principle

In page 86, line 33, delete the following sentence:

"In Table 682, the CAPABILITY_INDEX transmitted in the AAI_SBC-REQ message refers to the maximum "Capability Class" that the AMS can support. The maximum value of CAPABILITY_INDEX is denoted by 8bits."

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10028

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 89 Line 32 Fig/Table# Subclause 16.2.3.4

Table for parameters to be negotiated is replaced with AAI_SBC-REQ message field.
Hence, the sentence "The following parameters in Table 683 may be negotiated and parameter sets are mapped to Capability index:" is not required.
Delete it as suggested remedy.

Suggested Remedy

~~The following parameters in Table 683 may be negotiated and parameter sets are mapped to Capability index: ~~

GroupResolution

Decision of Group: Agree

~~The following parameters in Table 683 may be negotiated and parameter sets are mapped to Capability index: ~~

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10029

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 89 Line 43 Fig/Table# Subclause 16.2.3.5

CAPABILITY_INDEX can be used to express capabilities, but it does not mean capabilities that ABS has allowed to AMS. Content of AAI_SBC-RSP message implies capabilities that ABS has allowed to AMS
Delete it as suggested remedy.

Suggested Remedy

~~In Table 684, the CAPABILITY_INDEX transmitted in the AAI_SBC-RSP message refers to the "Capability Class" that the ABS has allowed the AMS to use.~~

GroupResolution

Decision of Group: Principle

In page 89, line 42, delete the following sentence:

"In Table 684, the CAPABILITY_INDEX transmitted in the AAI_SBC-RSP message refers to the "Capability Class" that the ABS has allowed the AMS to use."

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10030

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 94 Line 1 Fig/Table# Subclause 16.2.3.7

The following item is incorporated already in table 686 AAI_REG-REQ format.
delete the duplicate.

•AMS initiated aGP Service Adaptation Capability:
0b0: no support
0b1: support

Suggested Remedy

[delete the line 1 to 4 in page 94]

~~•AMS initiated aGP Service Adaptation Capability:
0b0: no support
0b1: support~~

GroupResolution

Decision of Group: Principle

Resolved by comment #10031.

Resolution:

Delete the redundant text regarding AMS initiated aGP Service Adaptation Capability as follows.

16.2.3.7 AAI_REG-REQ

An AAI_REG-REQ message is transmitted by AMS to negotiate general AMS capabilities and do registration during network entry.

The following parameters may be included in AMS capability negotiation parameters of AAI_REG-REQ.

~~•AMS initiated aGP Service Adaptation Capability:
0b0: no support
0b1: support~~

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions b) none needed

Comment by:

Kiseon Ryu

Membership Status: MemberDate: 2010-08-13Comment # A10031Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 94 Line 1 Fig/Table# Subclause 16.2.3.7

AMS initiated aGP Service Adaptation Capability is already included in Table 686 - AAI_REG-REQ message Field Descriptions. No reason to specify it only above the table.

Suggested Remedy

Delete the redundant text regarding AMS initiated aGP Service Adaptation Capability as follows.

16.2.3.7 AAI_REG-REQ

An AAI_REG-REQ message is transmitted by AMS to negotiate general AMS capabilities and do registration during network entry.

The following parameters may be included in AMS capability negotiation parameters of AAI_REG-REQ.

~~•AMS initiated aGP Service Adaptation Capability:
0b0: no support
0b1: support ~~

GroupResolutionDecision of Group: Agree

Delete the redundant text regarding AMS initiated aGP Service Adaptation Capability as follows.

16.2.3.7 AAI_REG-REQ

An AAI_REG-REQ message is transmitted by AMS to negotiate general AMS capabilities and do registration during network entry.

The following parameters may be included in AMS capability negotiation parameters of AAI_REG-REQ.

~~•AMS initiated aGP Service Adaptation Capability:
0b0: no support
0b1: support ~~

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # **A10032**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 95 Line 1 Fig/Table# 686 Subclause 16.2.3.7

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

DCR is an essential feature to 16m system.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10033

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 95 Line 43 Fig/Table# 686 Subclause 16.2.3.7

Since ' Non-ARQ parameters' belongs to 'AMS capability negotiation parameters'.
Numbering of item should be changed.

Suggested Remedy

[line 43 , page95] <ins> B)</ins>_Non-ARQ parameters
[line 45 , page 95] <ins>B.1)</ins> MAXIMUM_NON_ARQ_BUFFER_SIZE
[line 48 , page 95 ~ line 10, page98: shift numbering by 1 for each column. i.e. B -> C, C -> D, E-> F, ... , P->Q.]

GroupResolution

Decision of Group: Agree

[line 43 , page95] <ins> B)</ins>_Non-ARQ parameters
[line 45 , page 95] <ins>B.1)</ins> MAXIMUM_NON_ARQ_BUFFER_SIZE
[line 48 , page 95 ~ line 10, page98: shift numbering by 1 for each column. i.e. B -> C, C -> D, E-> F, ... , P->Q.]

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10034

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 97 Line 22 Fig/Table# 686 Subclause 16.2.3.7

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: Disagree

Reason for Group's Decision/Resolution

parameters need to be defined before agreement

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10035

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 99 Line 45 Fig/Table# 686 Subclause 16.2.3.7

In the previous session #68, Comment #503 is accepted in principle with the contribution C802.16m-10/0705r4 but wrongly implemented. Especially for the item 'Host configuration capabilities and its parameters' some text places in the wrong position and some text is missed.

Suggested Remedy

Adopt the proposed text in contribution C802.16m-10/1018 or its later version.

GroupResolution

Decision of Group: Principle

Adopt the proposed text in contribution C802.16m-10/1018r1.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10036

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 107 Line 9 Fig/Table# 690 Subclause 16.2.3.10

This contribution proposes the cleanup version of AAI_HO-REQ message.

Suggested Remedy

Adopt texts in C802.16m-10/0957

GroupResolution

Decision of Group: Principle

Resolved by comment #255

Resolution:

Adopt text proposal in contribution C802.16m-10/1060r5

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions b) none needed

Comment by:

Jaesun Cha

Membership Status: MemberDate: ?Comment # A10037Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 108 Line 27 Fig/Table# 691 Subclause 16.2.3.11

'HO Reentry Interval' is defined as time interval for network reentry with target ABS, but is used as time interval for data communication with serving ABS in other places.

Suggested Remedy

[Modify 'Value/Note' field for 'HO Reentry Interleaving Interval' in Table 691 as follows]

If HO Reentry Interleaving Interval > 0, the AMS performs network reentry to the target ABS within the HO Reentry ~~Interleaving~~ Interval and continues data transmission with the Serving ABS during HO Reentry Interleaving Interval. If HO Reentry Interleaving Interval =0, the AMS performs multi-carrier EBB (Established Before Break) HO procedure per 16.2.8.2.9.2.2

[Modify texts on page 288, line 64 as follows]

If HO_Reentry_Interleaving_Interval > 0, the AMS communicates with the target ABS during HO_Reentry_~~Interleaving~~_Interval, and with the serving ABS during HO_Reentry_Interleaving_Interval.

GroupResolutionDecision of Group: Agree

[Modify 'Value/Note' field for 'HO Reentry Interleaving Interval' in Table 691 as follows]

If HO Reentry Interleaving Interval > 0, the AMS performs network reentry to the target ABS within the HO Reentry ~~Interleaving~~ Interval and continues data transmission with the Serving ABS during HO Reentry Interleaving Interval. If HO Reentry Interleaving Interval =0, the AMS performs multi-carrier EBB (Established Before Break) HO procedure per 16.2.8.2.9.2.2

[Modify texts on page 288, line 64 as follows]

If HO_Reentry_Interleaving_Interval > 0, the AMS communicates with the target ABS during HO_Reentry_~~Interleaving~~_Interval, and with the serving ABS during HO_Reentry_Interleaving_Interval.

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's NotesEditor's Actions a) done

Comment by:

Jaehyuk Jang

Membership Status: MemberDate: 2010-08-12Comment # **A10038**Document under Review: **P802.16m/D7**Ballot ID: **sb_16m**Comment Type Technical Part of Dis Satisfied Page 110 Line 16 Fig/Table# Tabl Subclause 16.2.3.11

Based on D7, only 2 values (i.e., 0b01, 0b10) are available for Ranging_opportunity_index of dynamic NS-RCH.

*In pp. 386, line 60:**When a regular NS-RCH is allocated in a frame by S-SFH SP1, it shall be mapped into the opportunity index '0b00'. When an S-RCH is allocated in a frame by S-SFH SP1 (i.e. for the femto ABS or WirelessMAN-OFDMA with FDM-based UL PUSC Zone) or AAI-SCD message, it shall be mapped into opportunity index '0b11'. When a dynamic NS-RCH(s) is allocated in a frame by AAI_HO-CMD and/or Broadcast Assignment A-MAP IE, it shall be mapped into the remaining opportunity indices.*

Hence, only 1 bit is enough to indicate two values (0b01, 0b10) both in the AAI_HO-CMD message and Broadcast Assignment A-MAP IE.

Suggested Remedy

Adopt the following 4 remedies.

[Remedy #1: Update "Size" of "Ranging opportunity index" field in Table 691, pp. 110, line 16, from '3' to '1'.]

[Remedy #2: Add the following description to "Value / Note" of "Ranging opportunity index" field in Table 691, pp. 110, line 16 as follows:]

Indicates the index of the allocated ranging opportunity of the dynamic ranging channel used in the RAID. Ranging opportunity index shall be assigned by the target ABS. The target ABS shall assign unique ranging opportunity index which is not overlapped with other ranging channel in the allocated frame.

<ins>**0b0: 0b01**
0b1: 0b10</ins>

[Remedy #3: Update "Size (bit)" of "Ranging opportunity index" field in Table 862, pp. 618, line 48, from '2' to '1'.]

[Remedy #4: Add the following description to "Description/Notes" of "Ranging opportunity index" field in Table 862, pp. 618, line 48 as follows:]

Opportunity index of the ranging channel

<ins>**0b0: 0b01**
0b1: 0b10</ins>**GroupResolution****Decision of Group: Agree**

[Remedy #1: Update "Size" of "Ranging opportunity index" field in Table 691, pp. 110, line 16, from '3' to '1'.]

[Remedy #2: Add the following description to "Value / Note" of "Ranging opportunity index" field in Table 691, pp. 110, line 16 as follows:]

Indicates the index of the allocated ranging opportunity of the dynamic ranging channel used in the RAID. Ranging opportunity index shall be assigned by the target ABS. The target ABS shall assign unique ranging opportunity index which is not overlapped with other ranging channel in the allocated frame.

<ins>0b0: 0b01
0b1: 0b10</ins>

[Remedy #3: Update "Size (bit)" of "Ranging opportunity index" field in Table 862, pp. 618, line 48, from '2' to '1'.]

[Remedy #4: Add the following description to "Description/Notes" of "Ranging opportunity index" field in Table 862, pp. 618, line 48 as follows:]

Opportunity index of the ranging channel

<ins>0b0: 0b01
0b1: 0b10</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions a) done

Comment by:

Kiseon Ryu

Membership Status: MemberDate: 2010-08-13Comment # A10039Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 110 Line 28 Fig/Table# 691 Subclause 16.2.3.11

No subchannel defined in 16m

Suggested Remedy

Replace 'subchannel' with 'subband' in Table 691 - AAI_HO-CMD parameters as follows.

Table 691—AAI_HO-CMD parameters

O	Ranging opportunity Subframe index	2	Indicates the subframe index of the allocated ranging opportunity	May be included when CDMA_RNG_FLAG = 1. The subchannel <ins>subband </ins>of a dynamic ranging channel is same as the ranging channel allocated by SFH.
---	---------------------------------------	---	--	---

GroupResolutionDecision of Group: Agree

Replace 'subchannel' with 'subband' in Table 691 - AAI_HO-CMD parameters as follows.

Table 691—AAI_HO-CMD parameters

O	Ranging opportunity Subframe index	2	Indicates the subframe index of the allocated ranging opportunity	May be included when CDMA_RNG_FLAG = 1. The subchannel <ins>subband </ins>of a dynamic ranging channel is same as the ranging channel allocated by SFH.
---	---------------------------------------	---	--	---

Reason for Group's Decision/ResolutionGroup's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Soojung Jung

Membership Status: Member

Date: 2010-08-13

Comment # A10040

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 113 Line 38 Fig/Table# Subclause 16.2.3.12

CP info is not provided through the AAI_Global-CFG message.

Suggested Remedy

[Modify the text as follows]

b)physical carrier index referring AAI_Global-Config <ins>CFG</ins> message which provides carrier frequency, BW,CP info, TDD/FDD and related definitions(expected to be the same given carrier frequency)

GroupResolution

Decision of Group: Agree

[Modify the text as follows]

b)physical carrier index referring AAI_Global-Config <ins>CFG</ins> message which provides carrier frequency, BW,CP info, TDD/FDD and related definitions(expected to be the same given carrier frequency)

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10041

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 113 Line 45 Fig/Table# Subclause 16.2.3.12

ABSs included in AAI_NBR-ADV are just neighbor ABSs, not recommended ABSs for HO.

Suggested Remedy

To allow AAI_NBR-ADV fragmentation while providing flexibility for AMS HO operation without requiring acquisition of the whole AAI_NBR-ADV message, ABS always provides the total number of cell types, total number of ~~recommended~~ segments for each type_ and the total number of neighbor ABS per segment. Each AAI_NBR-ADV fragment is indicated by AAI_NBR-ADV Segment Index. ABSs with identical type are listed in the AAI_NBR-ADV message in descending order of their cell coverage.

GroupResolution

Decision of Group: Agree

To allow AAI_NBR-ADV fragmentation while providing flexibility for AMS HO operation without requiring acquisition of the whole AAI_NBR-ADV message, ABS always provides the total number of cell types, total number of ~~recommended~~ segments for each type_ and the total number of neighbor ABS per segment. Each AAI_NBR-ADV fragment is indicated by AAI_NBR-ADV Segment Index. ABSs with identical type are listed in the AAI_NBR-ADV message in descending order of their cell coverage.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions a) done

Comment by:

Jaesun Cha

Membership Status: MemberDate: ?Comment # A10042Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 113 Line 52 Fig/Table# Subclause 16.2.3.12

'Cell type' field included in AAI_NBR-ADV is not a bitmap type, which means that system information of ABSs from multiple cell types can not be included in the same segment.

Suggested Remedy

Each AAI_NBR-ADV message carries

- AAI_NBR-ADV change count
- number of total cell types
- segment information for this AAI_NBR-ADV message
- system information of ABSs ~~from one or more cell types, which is of variable size~~ [in the specific cell type](#).
- Starting ABS Index: Starting ABS Index is the index offset from the last ABS of the previous AAI_NBR-ADV segment. If this is the first AAI_NBR-ADV segment, the Starting ABS Index will be 0. Hence, each AAI_NBR-ADV segment has one Index which corresponds to the first ABS in that AAI_NBR-ADV segment.

GroupResolutionDecision of Group: Principle

Each AAI_NBR-ADV message carries

- AAI_NBR-ADV change count
- number of total cell types
- segment information for this AAI_NBR-ADV message
- system information of ABSs ~~from one or more cell types, which is of variable size~~ [of a specific cell type](#).
- Starting ABS Index: Starting ABS Index is the index offset from the last ABS of the previous AAI_NBR-ADV segment. If this is the first AAI_NBR-ADV segment, the Starting ABS Index will be 0. Hence, each AAI_NBR-ADV segment has one Index which corresponds to the first ABS in that AAI_NBR-ADV segment.

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's NotesEditor's Actions a) done

Comment by:

Kiseon Ryu

Membership Status: MemberDate: 2010-08-13Comment # A10043Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 114 Line 20 Fig/Table# Subclause 16.2.3.12

The size of physical carrier index is not 6 bits but 4 bits.

Suggested Remedy

Remedy 1. Modify the text on page 114, line 20, as follows.

—Physical carrier index (6 <ins>4 </ins>bits, refer to the "physical carrier index" defined in AAI_Global-Config)

Remedy 2. Modify the text on page 115, line 59, as follows.

Table 692—AAI_NBR-ADV parameters

M	D.3) Physical carrier index	6 <ins>4 </ins>	Refer to the physical carrier index in AAI_Global-Config message
---	-----------------------------	----------------------------	--

GroupResolutionDecision of Group: DisagreeReason for Group's Decision/Resolution

Physical carrier index has been agreed to be 6 bits.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions b) none needed

Comment by:

Jaesun Cha

Membership Status: MemberDate: ?Comment # A10044Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 114 Line 26 Fig/Table# Subclause 16.2.3.12

According to the definition of 'SFH_encoding_format', only Serving ABS and previous neighbor ABS can be a reference ABS.

Suggested Remedy

where for ABS of macrocell type, all the necessary system information shall be included, and the format may only carry delta information fields with respect to the reference ABS(e.g., the serving ABS or the ~~first~~previous neighbor BS/ABS in this cell type); and for Wireless-MAN-OFDMA reference system, only 48-bit BS-ID and Preamble index are included in AAI_NBR-ADV.

GroupResolutionDecision of Group: Agree

where for ABS of macrocell type, all the necessary system information shall be included, and the format may only carry delta information fields with respect to the reference ABS(e.g., the serving ABS or the ~~first~~preceding neighbor BS/ABS of ~~in~~ this cell type); and for Wireless-MAN-OFDMA reference system, only 48-bit BS-ID and Preamble index are included in AAI_NBR-ADV.

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's NotesEditor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10045

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 114 Line 59 Fig/Table# 692 Subclause 16.2.3.12

AAI_NBR-ADV needs to be clarified. For example, 'paging carrier indication' are present as an independent parameter although it is a carrier-specific parameter.

Suggested Remedy

adopt texts in C80216m-10/0955

GroupResolution

Decision of Group: Principle

adopt texts in C80216m-10/0955r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions a) done

Comment by: Soojung Jung

Membership Status: Member

Date: 2010-08-13

Comment # A10046

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 121 Line 33 Fig/Table# 693 Subclause 16.2.3.13

The bit size of change count for AAI_NBR-ADV is 3

Suggested Remedy

[Modify texts in Table 693, on page 121 line 33 as follows]

o Configuration Change Count for	8	the value of Configuration present if N_Reco
AAI_NBR-ADV		Change Count in AAI_N mmended_ABS_
		BR-ADV meesage used index >0
		for neighbor ABS index ref
		erence

[Modify texts in Table 694, on page 124 line 24 as follows]

o Configuration Change Count for	8	the value of Configuration present if N_Reco
AAI_NBR-ADV		Change Count in AAI_N mmended_ABS_
		BR-ADV meesage used index >0
		for neighbor ABS index ref
		erence

[Modify texts in Table 695, on page 127 line 48 as follows]

o Configuration Change Count for	8	the value of Configuration present if N_Reco
AAI_NBR-ADV		Change Count in AAI_N mmended_ABS_
		BR-ADV meesage used index >0
		for neighbor ABS index ref
		erence

[Modify texts in Table 693, on page 121 line 33 as follows]

o	Configuration Change Count for <ins>3 </ins>8 the value of Configuration present if N_Reco
	AAI_NBR-ADV Change Count in AAI_N mmended_ABS_
	BR-ADV meesage used index >0
	for neighbor ABS index ref
	erence

[Modify texts in Table 694, on page 124 line 24 as follows]

o	Configuration Change Count for <ins>3 </ins>8 the value of Configuration present if N_Reco
	AAI_NBR-ADV Change Count in AAI_N mmended_ABS_
	BR-ADV meesage used index >0
	for neighbor ABS index ref
	erence

[Modify texts in Table 695, on page 127 line 48 as follows]

o	Configuration Change Count for <ins>3 </ins>8 the value of Configuration present if N_Reco
	AAI_NBR-ADV Change Count in AAI_N mmended_ABS_
	BR-ADV meesage used index >0
	for neighbor ABS index ref
	erence

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions a) done

Comment by: Soojung Jung**Membership Status:** Member**Date:** 2010-08-13**Comment #** A10047**Document under Review:** P802.16m/D7**Ballot ID:** sb_16m

Comment **Type** Technical **Part of Dis** **Satisfied** **Page** 121 **Line** 48 **Fig/Table#** 693 **Subclause** 16.2.3.13

In the last meeting, to reduce the overhead, we agreed to use AAI_NBR-ADV Segment Index and Nbr_Bitmap_Index in the AAI_SCN-REQ/RSP/REP message. Each bit position in Nbr_Bitmap_Index corresponds to a ABS index of the corresponding AAI_NBR-ADV message. Therefore the size of bitmap equals to the number of neighbor ABSs in the corresponding AAI_NBR-ADV message.

Suggested Remedy

[Modify the texts in Table 693, on page 121 line 48 as follows]

o | Nbr_Bitmap_Index | ~~8~~ Variable | Each bit position corresponds to | present if |
 | | | | a ABS Index of the corresponding | N_Recom |

[Modify the texts in Table 694, on page 125 line 5 as follows]

o | Nbr_Bitmap_Index | ~~8~~ Variable | Each bit position corresponds to | present if |
 | | | | a ABS Index of the corresponding | N_Recom |

[Modify the texts in Table 695, on page 128 line 5 as follows]

o | Nbr_Bitmap_Index | ~~8~~ Variable | Each bit position corresponds to | present if |
 | | | | a ABS Index of the corresponding | N_Recom |

GroupResolution**Decision of Group:** Disagree**Reason for Group's Decision/Resolution**

Variable cannot be recongized by ASN.1 format.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Lei Zhou

Membership Status: Member

Date: 2010-08-12

Comment # **A10048**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 123 Line 46 Fig/Table# 694 Subclause 16.2.3.14

Based on IEEE 802.16m/D7,"802.16m Draft Amendment ", new E-LBS zone design and transmission plan have been included and period of E-LBS-zone has been determined . There is no any control signaling for E-LBS zone including information of E-LBS zone and triggering measurement procedure in current 16m spec. So we propose to use AAI_SCN-RSP/REP for triggering AMS to measure E-LBS zone and reporting the measurement results.

Suggested Remedy

Adopt the proposed AWD text changes in contribution C802.16m-10_0991 or its latest revision.

GroupResolution

Decision of Group: Principle

Adopt the text proposed in C802.16m-10/0991r4

Reason for Group's Decision/Resolution

Comment was re-opened on Thursday and C802.16m-10/0991r4 was reviewed and accepted.

proposed resolution does not add functionality to the standard.

vote: 6 for, 3 against, 0 abstain.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions a) done

Comment by:

Kiseon Ryu

Membership Status: Member

Date: 2010-08-13

Comment # **A10049**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 127 Line 15 Fig/Table# 695 Subclause 16.2.3.15

AMS may report the scanning result of secondary carriers for MC operation. AAI_SCN-REP message should include N_Recommended_Carrier_Index_at_Serving_ABS and Carrier index at serving ABS.

Suggested Remedy

Add the following blue under-lined attributes to Table 695—AAI_SCN-REP parameters.

Table 695—AAI_SCN-REP parameters

M	Report mode	2	Action code for an AMS's scan report of its measurement 00: Event-triggered report 01: Periodic report according to Scan report period of AAI_SCN-RSP 10: One-time scan report
---	-------------	---	---

<ins>

O	<u>N_Recommended_Carrier_Index_at_Serving_ABS</u>		<u>4</u>		<u>Number of carriers to be scanned at the serving ABS.</u>		<u>Present if AMS decides to scan carrier index</u>
---	---	--	----------	--	---	--	---

O	<u>carIndexArr [0..15]</u>		<u>Carrier index at serving ABS</u>		<u>Variable (6 x N)</u>		<u>Recommended physical carrier index of the serving ABS to be scanned</u>		<u>Present if N_Recommended_Carrier_Index_at_Serving_ABS > 0</u>
---	----------------------------	--	-------------------------------------	--	-------------------------	--	--	--	---

</ins>

O <ins> carIndexArr </ins> S-ABS CINR mean
<ins> [0..15] </ins>

O <ins> carIndexArr </ins> S-ABS RSSI mean
<ins> [0..15] </ins>

O <ins> carIndexArr </ins> S-ABS RTD
<ins> [0..15] </ins>

GroupResolution

Decision of Group: Principle

Add the following new rows before 'Neighbor_request_indication' field in Table 695]

O	carIndexArr [0..15]	Variable		Present if AMS reports measurement results measured from carriers at Serving_ABS	
O	A. Carrier Index	6	Carrier Index of carrier at Serving_ABS	Present if AMS reports measurement results measured from carriers at Serving_ABS	
O	B. S-ABS CINR mean		8	CINR mean parameter measured by AMS from carrier at Serving_ABS	Present if AMS is asked to report CINR
O	C. S-ABS RSSI mean		8	RSSI mean parameter measured by AMS from carrier at Serving_ABS	Present if AMS is asked to report RSSI

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Yuqin Chen

Membership Status: Member

Date: 2010-08-13

Comment # A10050

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 157 Line 29 Fig/Table# Subclause 16.2.3.30

AAI_SCD message contains some important parameters associated with UL power control, ranging, sounding and handover etc. An AMS should ensure that AAI_SCD parameters being used are identical with those required by ABS; otherwise, AMS may not be in normal operation, and even may impact normal operation of other AMSs. Because AAI_SCD transmission process is very robust as that of broadcast message, an AMS in active mode usually can successfully receive and update AAI_SCD in time. But, as an AMS in sleep mode may not be able to receive the changed AAI_SCD during sleep interval, thus after the AMS wakes up, it shall not have up-to-date AAI_SCD parameters, and also shall not be in normal operation; in addition, if AAI_SCD transmission periodicity is very long, the above AMS may not return to normal operation condition within a very short time. Therefore, a scheme shall be needed to resolve the above problem.

In the other hand, ABS transmits and changes system parameters in the AAI_SCD message as well as SFH (Super Frame Header). The changed S-SFH contents are applied in the super-frame which is indicated by S-SFH apply offset in P-SFH. However, there is no description of when ABS applies the system parameters associated with the current Configuration Change Count in the AAI_SCD message

Suggested Remedy

Please adopt the text proposal in IEEE C80216m-10_1076 or its latest revision.

GroupResolution

Decision of Group: Principle

Resolved by comment #221.

Resolution:

Adopt the proposed text in C802.16m-10/0994r4

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions b) none needed

Comment by: Hyunkyu YuMembership Status: MemberDate: 2010-08-13Comment # A10051Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 160 Line 11 Fig/Table# 714 Subclause 16.2.3.30

The unit of T_ReTx_Interval is not defined in AAI_SCD message.

Suggested Remedy

[Add the following text in page 160, line 11, table 714, subclause 16.2.3.30, as]

<ins> M </ins>	T_ReTx_Interval	3	1-8 if DL_N_MAX_ReTx = 4;		<ins> N.A </ins>
			1-4 if DL_N_MAX_ReTx = 8		
			<ins> The unit is a frame. </ins>		

GroupResolutionDecision of Group: Agree

[Add the following text in page 160, line 11, table 714, subclause 16.2.3.30, as]

<ins> M </ins>	T_ReTx_Interval	3	1-8 if DL_N_MAX_ReTx = 4;		<ins> N/A </ins>
			1-4 if DL_N_MAX_ReTx = 8		
			<ins> The unit is a frame. </ins>		

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.3, MAC: MAC Control messages; LMAC + Others

Editor's NotesEditor's Actions a) done

Comment by: Eunkyung Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10052

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 161 Line 6 Fig/Table# 714 Subclause 16.2.3.30

E-MBS should support following properly.

- seamless transition from one E-MBS zone to another any interruption of E-MBS data service
- macro diversity
- efficient carrier switching in terms of allocation long unicast interval, staying in non-E-MBS carrier.

However, current Zone Allocation Bitmap does not support E-MBS region as well as E-MBS Zone especially in the case of any ABS belonging to boundary of E-MBS Zones.

Therefore, E-MBS configuration parameters (i.e., ZF, Zone Allocation Bitmap) should be modified more efficiently using following procedure.

- Step 1: Check whether current carrier is mixed or dedicated carrier
- Step 2: Divide the subbands into unicast region and multicast region where the multicast region may be used for E-MBS – only for the mixed carrier
- Step 3: Divide the multicast region into E-MBS region and non-E-MBS region

Suggested Remedy

Please adopt the text proposal in IEEE C802.16m-10/0977 or its latest revision.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

There is no justification for the change.

Vote:

In favor: 1

Opposed: 9

Abstain:

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; LMAC + Others

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Inuk Jung

Membership Status: Member

Date: 2010-08-13

Comment # A10053

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 168 Line 27 Fig/Table# 720 Subclause 16.2.3.36

AAI_NBR-REQ message should only be used for acquiring system information of requested CSG femtocells. Also, the request BS type seems redundant. OSG femtocells are included in the AAI_NBR-ADV message and the CSG-open or CSG-closed femtocells may be identified by CSGID the AMS has informed during the network entry procedure.

Suggested Remedy

Propose to remove the 'Request BS type' parameter in AAI_NBR-REQ message.

Modify Table 720 as follows:

M/O	Attributes / Array of attributes	Size (bits)	Value / Note	Conditions
M	Request BS type	2	00: CSG Femto ABS 01: OSG Femto ABS 10-11: reserved 	N/A

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

message to be modified has been deleted by comment #10178

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC HO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Shuangfeng Han

Membership Status:

Date: 2010-08-13

Comment # **A10054**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 172 Line 50 Fig/Table# 722 Subclause 16.2.3.38

In CO-MIMO, CPMI is feedback for multiBS operation. But relative channel amplitude information is not included. This may degrade performance of CO-MIMO.

Suggested Remedy

To accept proposal in C80216m-10_1072 or its latest version.

GroupResolution

Decision of Group: Principle

Adopt the text proposal in C80216m-10_1072r2

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; LMAC + Others

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10055

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 188 Line 25 Fig/Table# Subclause 16.2.3.46.1

During connection establishment procedure, an ABS may assign predefined BR index for 3-step BR. However, the current draft does not describe how to assign the BR index in detail except one restriction, which is "If BR action is 0b10 (BR), ABS shall assign different BR index to service flows whose UL Grant Scheduling Type is different". In other words, it means that the ABS may assign the same BR index to service flows if their UL Scheduling Types are same although the relevant BR sizes are different. In this case, ABS may not differentiate bandwidth requests based on BR index.

Suggested Remedy

adopt texts in C80216m-10/0954

GroupResolution

Decision of Group: Principle

adopt texts in C80216m-10/0954r2

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaehyuk Jang

Membership Status: Member

Date: 2010-08-12

Comment # **A10056**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 188 Line 30 Fig/Table# Subclause 16.2.3.46.1

Predefined BR index shall be unique within an MS, not within the service flow. In 3-step BR, an MS only sends STID and Predefined BR index. If same predefined BR index is used for MS's service flow which has same UL Grant Scheduling Type, ambiguity occurs.

Suggested Remedy

[Update the sentences in pp. 188, line 30 in D7 as follows:]

If BR action is 0b10 (BR), ~~ABS shall assign different BR index to service flows whose UL Grant Scheduling Type is different~~<ins>**each different BR size of service flow within a single AMS shall be assigned a different predefined BR index**</ins>.

[Update the sentences in pp. 202, line 48 in D7 as follows:]

If BR action is 0b10 (BR), ~~ABS shall assign different BR index to service flows whose UL Grant Scheduling Type is different~~<ins>**each different BR size of service flow within a single AMS shall be assigned a different predefined BR index**</ins>.

GroupResolution

Decision of Group: Principle

Resolved by comment #10055.

Resolution:

adopt texts in C80216m-10/0954r2

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hyunkyu Yu

Membership Status: Member

Date: 2010-08-13

Comment # A10057

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 188 Line 65 Fig/Table# Subclause 16.2.3.46.1

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.

Suggested Remedy

Adopt the text proposal in IEEE C802.16m-10/0830r1 or its latest revision.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

To reserve HARQ channels to an flow can make an ACID difficeincy problem. In addition, it's a scheduling problem of AMS. At most, ABS can inform its intention for allocating resource in case of persistent scheduling.

vote: 11 for, 9 against, 0 abstain

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Youngbin Chang

Membership Status: Member

Date: 2010-08-13

Comment # A10058

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 194 Line 6 Fig/Table# 740 Subclause 16.2.3.46.1
MAC in-order deliver indicator clarification

Suggested Remedy

[Modify the text of line 6-11 on page 194 and line 22-27 on page 205 as follows:]

O T) MAC in-order delivery indicator	Indicate whether or not the order of delivery
	in non-ARQ connection is
	preserved by the MAC. <u>In ARQ connection.</u>
	<u>it shall be set to 1.</u>
	0 : not preserved
	1 : preserved

GroupResolution

Decision of Group: Principle

accept remedy in contribution c80216m-10/1084

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10059

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 194 Line 40 Fig/Table# 740 Subclause 16.2.3.46.1

the term 'CS encodingRule' should be replaced with 'CS parameter encoding rules' to keep consistency with IEEE 802.16-2009 specification.

Suggested Remedy

1. line 40, page 195, CS ~~encodingRule~~ parameter encoding rules
2. line 45, page 205, CS ~~encodingRule~~ parameter encoding rules
3. line 36, page 346, CS ~~encodingRule~~ parameter encoding rules

GroupResolution

Decision of Group: Agree

1. line 40, page 195, CS ~~encodingRule~~ parameter encoding rules
2. line 45, page 205, CS ~~encodingRule~~ parameter encoding rules
3. line 36, page 346, CS ~~encodingRule~~ parameter encoding rules

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

Comment by:

Anil Agiwal

Membership Status: MemberDate: ?Comment # **A10060**Document under Review: **P802.16m/D7**Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 198 Line 6 Fig/Table# 740 Subclause 16.2.3.46.1

Two MAC headers (AGMH, SPMH) are defined for MAC PDUs of a transport connection.
The MAC header (AGMH or SPMH) to be used for the MAC PDUs of a transport connection is decided at the time of connection establishment.

MAC header type attribute is defined to determine the same in D6 but is marked as optional.

It is an mandatory attribute and has to be present in each AAI_DSA_REQ.

Suggested Remedy

On page 198, table 740, 1st column, Lines 6-7

Change 'O' to 'M'.

GroupResolutionDecision of Group: Principle

[Modify texts on page 198, line 6 as follows]

O	MAC Header Type	1	Indicates whether AGMH or SPMH is presented at the start of MAC PDUs of the service flow	Present if SPMH is used to transmit MAC PDUs from this service flow
			0 = AGMH (Advanced Generic MAC Header)	
			1 = SPMH (Short-Packet MAC header)	
			default value is 0	

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's NotesEditor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jaehyuk Jang

Membership Status: Member

Date: 2010-08-12

Comment # A10061

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 204 Line 50 Fig/Table# Tabl Subclause 16.2.3.46.4

There are two contradictory sentences in D7

1. In pp.339, line 51: "*There are two adaptation methods. Only one of the methods is used for a service flow, and cannot be changed via AAI_DSC messages.*"
2. In pp. 204, line 50 (Table 743) "Adpation field" is included.

To solve the problem, Adaptation Method field in Table 743 should be removed.

Suggested Remedy

[Remove "Adaptation Method" field in Table 743, pp. 204, line 50.]

GroupResolution

Decision of Group: Agree

[Remove "Adaptation Method" field in Table 743, pp. 204, line 50.]

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10062

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 216 Line 20 Fig/Table# Subclause 16.2.3.51

NSP list is broadcast by AAI_SII-ADV message only.
Hence 'may' should be replaced with 'shall' as suggested remedy.

Suggested Remedy

An ABS ~~may~~ shall_use the AAI_SII-ADV message to broadcast a list of Network Service Provider (NSP) Identifiers.

GroupResolution

Decision of Group: Disagree

If NSP Identifier is transmitted by the ABS then the ~~An~~ ABS ~~may~~ shall_use the AAI_SII-ADV message to broadcast a list of Network Service Provider (NSP) Identifiers.

Reason for Group's Decision/Resolution

other option is better choice (SBC), but text not available.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10063

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 216 Line 30 Fig/Table# 757 Subclause 16.2.3.51

Currently a legacy Access networks are deployed together with a legacy core networks (e.g. AAA server).
Due to development of the new 16m technologies we expect the 16m Access network will be deployed in some time.
So we may expect that 16m Access network is operating together with a legacy core network.
In those situations, MSID privacy may be disabled.
The AMSs need to know whether the network(e.g. NSP) supports MSID privacy or not.
Hence we suggest using AAI_SII-ADV message to notify the 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

MSID privacy policy can be provisioned, also cannot be in critical path of NE.

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10064

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 216 Line 38 Fig/Table# 752 Subclause 16.2.3.51

As a note for NSP identifier, 'NSP identifier which ABS supports' is sufficiently enough.
Delete unclear and meaningless words.

Suggested Remedy

NSP identifier~~s~~ <ins>which ABS supports</ins> to report.The serving ABS shall indicate only the trigger

GroupResolution

Decision of Group: Agree

NSP identifier~~s~~ <ins>which ABS supports</ins> to report.The serving ABS shall indicate only the trigger

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC NE

Editor's Notes

Editor's Actions a) done

Comment by:

Kiseon Ryu

Membership Status: MemberDate: 2010-08-13Comment # A10065Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 220 Line 30 Fig/Table# Subclause 16.2.3.47

No action in AAI_CM-CMD is meaningless.

Suggested Remedy

Delete 'no action' from the AAI_CM-CMD message and reserve the value as follows.

Table 756—Contents of AAI_CM-CMD message

O	Indication Type	2	Indicate the corresponding secondary carrier is activated or deactivated 00: no action <ins>reserved</ins> 01: deactivation only 10: activation only 11: both activation and deactivation	Shall be present when Action code is set to 0b0 in AAI_CM-CMD message
---	-----------------	---	--	---

GroupResolutionDecision of Group: Principle

Delete 'no action' from the AAI_CM-CMD message and reserve the value as follows.

Table 756—Contents of AAI_CM-CMD message

O	Indication Type	2	Indicate the corresponding secondary carrier is activated or deactivated 00: no action <ins>deactivation only</ins> 01: deactivation only<ins>activation only</ins> 10: activation only<ins>both activation and deactivation</ins> 11: both activation and deactivation <ins>reserved</ins>	Shall be present when Action code is set to 0b0 in AAI_CM-CMD message
---	-----------------	---	---	---

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC MC (multicarrier)

Editor's NotesEditor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Tsai Chia-Lung

Membership Status:

Date: 2010-08-13

Comment # **A10066**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **225** Line **10** Fig/Table# Subclause **16.2.3.57**

Clarifications are needed in Table 759.

Suggested Remedy

Adopt the proposed text in C802.16m-10/0960 or its latest revision

GroupResolution

Decision of Group: **Principle**

Resolved by comment #241.

Resolution:

Adopt the proposed text modifications in C802.16m-10/1054r3.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC MC (multicarrier)

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chia-Lung Tsai

Membership Status:

Date: 2010-08-11

Comment # **A10067**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **225** Line **10** Fig/Table# Subclause **16.2.3.57**
Some typos in Table 760 are identified and clarifications are needed in Table 759.

Suggested Remedy

Adopt the proposed text in C802.16m-10/0960 or its latest revision

GroupResolution

Decision of Group: **Principle**

Resolved by comment #241.

Resolution:

Adopt the proposed text modifications in C802.16m-10/1054r3.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC MC (multicarrier)

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Tsai Chia-Lung

Membership Status:

Date: 2010-08-13

Comment # **A10068**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 225 Line 13 Fig/Table# Subclause 16.2.3.57

The word bit shall be plural in the table 759.

Suggested Remedy

Change the Size (bit) to the Size (bits)

GroupResolution

Decision of Group: Agree

Change the Size (bit) to the Size (bits)

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chia-Lung Tsai

Membership Status:

Date: 2010-08-11

Comment # A10069

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 225 Line 13 Fig/Table# Subclause 16.2.3.57

The word bit shall be plural in the table 759.

Suggested Remedy

Change the Size (bit) to the Size (bits)

GroupResolution

Decision of Group: Agree

Change the Size (bit) to the Size (bits)

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Soojung Jung

Membership Status: Member

Date: 2010-08-13

Comment # **A10070**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 226 Line 37 Fig/Table# 759 Subclause 16.2.3.57

The frequency offset and bandwidth of each carrier are provided through the AAI_Global-CFG message. Therefore the description that are used to derive the information for subcarrie alignment based on reference carrier indicator and multicarrier configuration index and Table 803 need to be modified.

Suggested Remedy

adopt the proposed text in the latest version of contribution C80216m-10_0983

GroupResolution

Decision of Group: Principle

Adopt the proposed text modifications in C80216m-10_0983r1.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.3, MAC: MAC Control messages; MAC MC (multicarrier)

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Youngbin Chang

Membership Status: Member

Date: 2010-08-13

Comment # A10071

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 232 Line 48 Fig/Table# Subclause 16.2.4.3

Clarification text on packing and concatenation. When packing is used, MAC SDUs from same connection should be packed not concatenated. The below cases are the exceptional because packing can not be used

1. two control messages can be concatenated in one PHY burst
2. ARQ arrangement blocks and normal ARQ blocks can be concatenated in on PHY burst

Suggested Remedy

Multiple MAC PDUs [from the same or different connections](#) may be concatenated into a single transmission in either the UL or DL directions. [MAC PDUs from the same connection may be concatenated only if the MAC SDUs cannot be packed in a single MAC PDU.](#) For AMS attached to ABS, each MAC PDU in UL/DL burst is uniquely identified by FID.

GroupResolution

Decision of Group: Agree

Multiple MAC PDUs [from the same or different connections](#) may be concatenated into a single transmission in either the UL or DL directions. [MAC PDUs from the same connection may be concatenated only if the MAC SDUs cannot be packed in a single MAC PDU.](#) For AMS attached to ABS, each MAC PDU in UL/DL burst is uniquely identified by FID.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.4, MAC: Construction and Transmission of MAC PDUs

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10072

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 245 Line 44 Fig/Table# 398 Subclause 16.2.5.2.1.2

last part of CMAC key formula is missed.

Suggested Remedy

Dot16KDF (CMAC-TEK prekey, "CMAC_KEYS"<ins>, 256)</ins>

GroupResolution

Decision of Group: Agree

Dot16KDF (CMAC-TEK prekey, "CMAC_KEYS"<ins>, 256)</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10073

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 246 Line 33 Fig/Table# Subclause 16.2.5.2.1.4

wrong reference

Suggested Remedy

The Key agreement 3-way handshake procedure (as shown in Figure ~~400~~³⁹⁹) includes the following steps:

GroupResolution

Decision of Group: Agree

The Key agreement 3-way handshake procedure (as shown in Figure ~~400~~³⁹⁹) includes the following steps:

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10074

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 247 Line 1 Fig/Table# Subclause 16.2.5.2.1.4

line 1 ~ 2 ,page 247, belongs to the above bullet.

Hence in order to prevent misreading line 1~2 should be the same depth with the sentence just before.

Suggested Remedy

make line 1~2 ,page 247, the same depth with the sentences just before.

GroupResolution

Decision of Group: Agree

make line 1~2 ,page 247, the same depth with the sentences just before.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10075

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 248 Line 1 Fig/Table# 399 Subclause 16.2.5.2.1.4

In the previous session #68, Comment #10012 is accepted in principle with the contribution C802.16m-10/0889r1 but proposed text #5 is wrongly implemented.

Suggested Remedy

Line 12 : Obtain AK_<ins>and</ins> Derive CMAC keys
Line 21: remove the box containing 'Derive PMK, AK, CMACkeys'.

GroupResolution

Decision of Group: Agree

Line 12 : Obtain AK_<ins>and</ins> Derive CMAC keys
Line 21: remove the box containing 'Derive PMK, AK, CMACkeys'.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10076

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 250 Line 10 Fig/Table# 400 Subclause 16.2.5.2.1.5.2

delete the ',' between PMK and SN.

Suggested Remedy

AAI_PKM-RSP("TEK-Reply", EKS, PMK, SN, COUNTER_TEK)(CMAC)

GroupResolution

Decision of Group: Agree

AAI_PKM-RSP("TEK-Reply", EKS, PMK, SN, COUNTER_TEK)(CMAC)

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10077

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 251 Line 61 Fig/Table# Subclause 16.2.5.2.1.5.6
replace NONCEMS with NONCE_MS

Suggested Remedy

AMS generates random ~~NONCEMS~~ NONCE_MS on calculating AMSID*. AMS derives new AK, and its CMAC key and TEK based on the AMSID*.

GroupResolution

Decision of Group: Agree

AMS generates random ~~NONCEMS~~ NONCE_MS on calculating AMSID*. AMS derives new AK, and its CMAC key and TEK based on the AMSID*.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Anil Agiwal

Membership Status: Member

Date: ?

Comment # A10078

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 252 Line 52 Fig/Table# Subclause 16.2.5.2.2

FID values needs correction.

FID 0x0 is for unecrypted message and FID 0x1 is for encrypted message.

Suggested Remedy

Modify the lines 52-57 on page 252, section 16.2.5.2.2 as follows:

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 <ins>FID</ins>FlowID 0x0<ins>0x1</ins> and 0x1<ins>0x0</ins> in AGMH respectively.

GroupResolution

Decision of Group: Agree

Modify the lines 52-57 on page 252, section 16.2.5.2.2 as follows:

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 <ins>FID</ins>FlowID 0x0<ins>0x1</ins> and 0x1<ins>0x0</ins> in AGMH respectively.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10079

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 255 Line 10 Fig/Table# Subclause 16.2.5.2.3.1.1

'byte index 0 transmit first' means big endian. CCM algorithm(NIST Special Publication 800-38) follows big endian also. Hence If explanation about big endian is included separately like D7, it can make misunderstanding. Suggest deleting that description.

Suggested Remedy

The ciphertext message authentication code is transmitted so that byte index 0 (as enumerated in NIST Special Publication 800-38) is transmitted first (i.e., LSB first).

GroupResolution

Decision of Group: Principle

The ciphertext message authentication code is transmitted so that byte index 0 (as enumerated in NIST Special Publication 800-38) is transmitted first (i.e., LSB first).

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10080

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 255 Line 65 Fig/Table# 764 Subclause 16.2.5.2.3.1.1

STD and IKS should be replaced with STID and EKS respectively.

Suggested Remedy

line 65: ST<ins>I</ins>D|FID

line 65 : <ins>E</ins>IKS|PN

GroupResolution

Decision of Group: Agree

line 65: ST<ins>I</ins>D|FID

line 65 : <ins>E</ins>IKS|PN

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10081

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 272 Line 38 Fig/Table# Subclause 16.2.5.3.1

Currently a legacy Access networks are deployed together with a legacy core networks (e.g. AAA server).
Due to development of the new 16m technologies we expect the 16m Access network will be deployed in some time.
So we may expect that 16m Access network is operating together with a legacy core network.
In those situations, MSID privacy may need to be disabled.
Hence we suggest AMSID privacy disable mode should be possible even when the ABS is attached to the advanced ASN.

Suggested Remedy

Adopt the proposed text in contribution C802.16m-10/1014 or its later version.

GroupResolution

Decision of Group: Principle

Adopt the proposed text in contribution C802.16m-10/1014.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Anil Agiwal

Membership Status: Member

Date: ?

Comment # A10082

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 274 Line 1 Fig/Table# Subclause 16.2.5.3.3

Comment # 0495 which was resolved in Meeting #68, with the proposed text in contribution # 766r1 is not correctly implemented.

Change 5 from 766 r1 is not incorporated.

Suggested Remedy

Modify the text on page 274, lines 1-7 as follows:

The selective confidentiality protection over control messages is indicated by <ins>FID </ins>the EC bit in the MCEH <ins>AGMH</ins>. Contrary to the transport flows where the established SA is applied to all data, the primary SA is selectively applied to the control messages. EC bit in the MCEH is used only for control flows to indicate whether PDU contains the control message that is encrypted based on control message type and its usage. In particular, whether control message is encrypted or not is decided on the security level with which the message is associated.

GroupResolution

Decision of Group: Agree

Modify the text on page 274, lines 1-7 as follows:

The selective confidentiality protection over control messages is indicated by <ins>FID </ins>the EC bit in the MCEH <ins>AGMH</ins>. Contrary to the transport flows where the established SA is applied to all data, the primary SA is selectively applied to the control messages. EC bit in the MCEH is used only for control flows to indicate whether PDU contains the control message that is encrypted based on control message type and its usage. In particular, whether control message is encrypted or not is decided on the security level with which the message is associated.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10083

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 274 Line 1 Fig/Table# Subclause 16.2.5.3.3

EC bit is not available any more. encryption of control message is distinguished by FID.

Suggested Remedy

The selective confidentiality protection over control messages is indicated by ~~the EC bit in the MCEH~~. Contrary to the transport flows where the established SA is applied to all data, the primary SA is selectively applied to the control messages. ~~the EC bit in the MCEH~~ is used ~~only~~ for control flows to indicate whether PDU contains the control message that is encrypted based on control message type and its usage. ~~In particular, whether control message is encrypted or not is decided on the security level with which the message is associated.~~

GroupResolution

Decision of Group: Principle

Resolved by comment #10082.

Resolution:

Modify the text on page 274, lines 1-7 as follows:

The selective confidentiality protection over control messages is indicated by ~~the EC bit~~ in the ~~MCEH~~ ~~AGMH~~. Contrary to the transport flows where the established SA is applied to all data, the primary SA is selectively applied to the control messages. ~~EC bit in the MCEH is used only for control flows to indicate whether PDU contains the control message that is encrypted based on control message type and its usage.~~ In particular, whether control message is encrypted or not is decided on the security level with which the message is associated.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Anil Agiwal

Membership Status: Member

Date: ?

Comment # A10084

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 274 Line 18 Fig/Table# Subclause 16.2.5.2.3.2

CMAC protected control messages has following issues:

Receiver needs to perform ASN.1 decoding before verifying the received control message

1) To get CMAC tuple

2) To get AK_COUNT (in case of AAI_RNG_REQ)

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 D7 CMAC tuple is part of ASN.1 encoded message.

Suggested Remedy

Adopt the proposed text in contribution C80216m-10_0963

GroupResolution

Decision of Group: Disagree

deferred

Reason for Group's Decision/Resolution

remedy is incomplete

Group's Notes

Clause 16.2.5, MAC: AAI Security

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10085

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 279 Line 24 Fig/Table# Subclause 16.2.6.1.1

The current AAI_NBR-ADV does not contain the information on cell load of neighbor ABSs.

Suggested Remedy

The AAI_NBR-ADV message may include parameters required for cell selection e.g., ~~cell load and~~ cell type. The ABS may broadcast different segments of AAI_NBR-ADV message over multiple MAC PDU's.

GroupResolution

Decision of Group: Principle

Resolved by comment #114

Resolution:

In page 279, line 26, modify the following sentence:

"The AAI_NBR-ADV message may include parameters required for cell selection e.g., cell load and cell type."

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions b) none needed

Comment by: Jaehyuk JangMembership Status: MemberDate: 2010-08-12Comment # **A10086**Document under Review: **P802.16m/D7**Ballot ID: **sb_16m**Comment Type Technical Part of Dis Satisfied Page 280 Line 51 Fig/Table# Tabl Subclause 16.2.6.2

To support handover from ABS to R1 BS, different triggering values may be required. Different size and structure of (A-)preamble may require a different triggering values.

Suggested Remedy

[Update the "Value" of "ABS type" in Table 772, pp. 280, line 51 as follows:]

ABS type of target ABS for this Trigger definition: (Any, Macro ABS, Macro Hot-zone ABS, Femto ABS, etc.). A value representing "any" means this trigger applies to all target ABSs. This value of ABS type field shall be ignored for triggers with Type= 0x3 or the Function=0x5 or 0x6 in Table 773

0x0: Any

0x1: Macro ABS

0x2: Macro Hot-zone ABS

0x3: Femto ABS

0x4<ins>: **R1 BS****0x5**</ins>-0xF: ReservedGroupResolutionDecision of Group: **Agree**

[Update the "Value" of "ABS type" in Table 772, pp. 280, line 51 as follows:]

ABS type of target ABS for this Trigger definition: (Any, Macro ABS, Macro Hot-zone ABS, Femto ABS, etc.). A value representing "any" means this trigger applies to all target ABSs. This value of ABS type field shall be ignored for triggers with Type= 0x3 or the Function=0x5 or 0x6 in Table 773

0x0: Any

0x1: Macro ABS

0x2: Macro Hot-zone ABS

0x3: Femto ABS

0x4<ins>: **R1 BS****0x5**</ins>-0xF: ReservedReason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.6, MAC: MAC HO procedures

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10087

Document under Review: P802.16m/D7

Ballot ID: sb_16m

<u>Comment</u>	<u>Type</u> Technical	<u>Part of Dis</u> <input type="checkbox"/>	<u>Satisfied</u> <input type="checkbox"/>	<u>Page</u> 284	<u>Line</u> 44	<u>Fig/Table#</u>	<u>Subclause</u> 16.2.6.3.3
----------------	-----------------------	---	---	-----------------	----------------	-------------------	-----------------------------

HO cancel by ABS is not defined in the D7.

Suggested Remedy

[Remedy 1: Modify texts on page 284, line 44 as follows]

Upon reception of the AAI_HO-CMD message, the AMS should pre-update STID and AK to be used in the target ABS. Any mismatched system information between AMS and the target ABS, if detected, may be provided to the AMS by the Serving ABS during HO preparation. For AMS initiated HO, the ABS may detect an S-SFH mismatch by referring to the AAI_NBR-ADV change count of AMS included in AAI_HO-REQ message. In such case, the ABS should include mismatching delta SFH information in AAI_HO-CMD, or it should ~~cancel~~reject the HO.

[Remedy 2: add the following row at the end of Table 691]

O	AA_NBR-ADV change count mismatch indication	1	1: there is a mismatch in AAI_NBR-ADV change count	May be included when Mode == 0b10
		0	0: otherwise	

GroupResolution

Decision of Group: Principle

In page 284, line 44, modify the following sentence:

"Upon reception of the AAI_HO-CMD message, the AMS should pre-update STID and AK to be used in the target ABS. Any mismatched system information between AMS and the target ABS, if detected, may be provided to the AMS by the Serving ABS during HO preparation. For AMS initiated HO, the ABS may detect an S-SFH mismatch by referring to the AAI_NBR-ADV change count of AMS included in AAI_HO-REQ message. In such case, the ABS should include mismatching delta SFH information in AAI_HO-CMD, or it should ~~cancel~~reject the HO.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Inuk Jung

Membership Status: Member

Date: 2010-08-13

Comment # A10088

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment

Type Technical

Part of Dis

Satisfied

Page 293

Line 34

Fig/Table#

Subclause 16.2.6.4.1.2.1

There are redundant text description and Figures related to zone switch mode=0.

Suggested Remedy

Review and adopt proposed text in contribution C802.16m-10/1048 or its latest version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

remedy is incomplete

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Inuk Jung

Membership Status: Member

Date: 2010-08-13

Comment # A10089

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 296 Line 6 Fig/Table# Subclause 16.2.6.4.1.2.1

AMS should be able to have a zone switch capability allowing DL only processing in both zones (i.e. and UL for LZone) for zone switch benefits. In this case, the AMS can successfully receive SFH while operating in LZone until Action Time (No UL operation in MZone) saving time during network reentry in MZone.

Suggested Remedy

Review and adopt proposed text in contribution C802.16m-10/1047 or its latest version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

remedy is incomplete

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaehyuk Jang

Membership Status: Member

Date: 2010-08-12

Comment # A10090

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 298 Line 1 Fig/Table# Subclause 16.2.6.4.2.2

If an AMS performs handover from MZone of ABS to R1 BS, the AMS needs to perform full network reentry in order to re-negotiate all capability with R1 BS. That text is missing in D7.

Suggested Remedy

[Add the following sentence in pp. 298, line 1 as follows:]

The AMS follows the same network reentry procedure to the target R1 BS as defined in section 6.3.21.2.7.<ins> **The network re-entry procedure shall be the same as full network reentry with HO optimization rules and scenarios defined in 6.3.21.2.10.**</ins>

GroupResolution

Decision of Group: Principle

[Add the following sentence in pp. 298, line 1 as follows:]

The AMS follows the same network reentry procedure to the target R1 BS as defined in section 6.3.21.2.7.<ins> **The network re-entry procedure shall be the same as network reentry with HO optimization rules and scenarios defined in 6.3.21.2.10.**</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.6, MAC: MAC HO procedures

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Chiwoo Lim

Membership Status:

Nonmember

Date: 2010-08-13

Comment # **A10091**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **305** Line **61** Fig/Table# Subclause **16.2.8**

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

Adopt the contribution C80216m-10/0974 or its latest version.

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

The proposed remedy is incomplete.

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Eunjong Lee

Membership Status: Member

Date: ?

Comment # A10092

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 306 Line 59 Fig/Table# Subclause 16.2.8.1
Editorial correction

Suggested Remedy

Multicarrier Switching: The multicarrier mode in which the AMS switches its physical layer connection from the primary to the partially configured or fully configured secondary carrier by ABS<ins>'s</ins> instruction to receive E-MBS services on the secondary carriers.

GroupResolution

Decision of Group: Agree

Multicarrier Switching: The multicarrier mode in which the AMS switches its physical layer connection from the primary to the partially configured or fully configured secondary carrier by ABS<ins>'s</ins> instruction to receive E-MBS services on the secondary carriers.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Eunjong Lee

Membership Status: Member

Date: ?

Comment # A10093

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 310 Line 23 Fig/Table# Subclause 16.2.8.2.3.2
Editorial correction

Suggested Remedy

The AAI_MC-RSP (<ins>M</ins>multicarrier Response) Message is typically sent to the AMS in response to the AAI_MC-REQ <ins>(Multicarrier Request)</ins> message, but it may also be sent by the ABS to an AMS to update the list of assigned carriers in unsolicited manner.

GroupResolution

Decision of Group: Agree

The AAI_MC-RSP (<ins>M</ins>multicarrier Response) Message is typically sent to the AMS in response to the AAI_MC-REQ <ins>(Multicarrier Request)</ins> message, but it may also be sent by the ABS to an AMS to update the list of assigned carriers in unsolicited manner.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Eunjong Lee

Membership Status: Member

Date: ?

Comment # A10094

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 311 Line 34 Fig/Table# Subclause 16.2.8.2.8

Wrong section number

Suggested Remedy

An ABS may assign UL feedback channels to each active carrier of an AMS as defined in 16.3.6.5.2.4. <ins>16.3.5.5.2.4.</ins>

GroupResolution

Decision of Group: Agree

An ABS may assign UL feedback channels to each active carrier of an AMS as defined in 16.3.6.5.2.4. <ins>16.3.5.5.2.4.</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Eunjong Lee

Membership Status: Member

Date: ?

Comment # A10095

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 311 Line 39 Fig/Table# Subclause 16.2.8.2.8

Wrong section number

Suggested Remedy

When FastFeedback channel is assigned, the AMS reports CINR for an active carrier over the assigned FastFeedback channel of the corresponding carrier at the feedback region as defined in 16.3.8.3.3. <ins>16.3.7.3.3. </ins>

GroupResolution

Decision of Group: Agree

When FastFeedback channel is assigned, the AMS reports CINR for an active carrier over the assigned FastFeedback channel of the corresponding carrier at the feedback region as defined in 16.3.8.3.3. <ins>16.3.7.3.3. </ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Eunjong Lee

Membership Status: Member

Date: ?

Comment # A10096

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 311 Line 43 Fig/Table# Subclause 16.2.8.2.8

For clarification

Suggested Remedy

When only DL of fully configured carrier has been activated, UL feedback channel assigned by the ABS is located at the UL region defined in the SFH on the primary carrier. In this case, the ABS may allocate for an AMS one UL fast feedback channel per a secondary carrier over a primary carrier. <ins>If the AMS receives Feedback Allocation A-MAP IE through the DL only activated carrier, the AMS reports CINR for the secondary carrier over the assigned FastFeedback channel of the primary carrier.</ins>

GroupResolution

Decision of Group: Principle

Modify the text (line 43, page 311) as follows:

When only DL of fully configured carrier has been activated, UL feedback channel assigned by the ABS is located at the UL region defined in the SFH on the primary carrier. In this case, the ABS may allocate for an AMS one UL fast feedback channel per a secondary carrier over a primary carrier. <ins>If the AMS receives Feedback Allocation A-MAP IE through the DL only activated carrier, the AMS transmits the UL feedback information for the secondary carrier over the assigned UL Fast Feedback channel of the primary carrier.</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Eunjong Lee

Membership Status: Member

Date: ?

Comment # A10097

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 314 Line 60

Fig/Table#

Subclause 16.2.8.2.9.2.1

Editorial correction

Suggested Remedy

The serving ABS informs the AMS <ins>of </ins>the carrier information (e.g. target primary carrier index) of the target ABSs through AAI_HO-CMD message.

GroupResolution

Decision of Group: Agree

The serving ABS informs the AMS <ins>of </ins>the carrier information (e.g. target primary carrier index) of the target ABSs through AAI_HO-CMD message.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Eunjong Lee

Membership Status: Member

Date: ?

Comment # A10098

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 314 Line 64 Fig/Table# Subclause 16.2.8.2.9.2.1

'will' is not a term of a specification

Suggested Remedy

The serving ABS ~~will~~ shall forward the information received from AAI_MC-REQ message to the target ABS(s) for secondary carrier pre-assignment~~. The serving ABS will~~ and reply the secondary carrier pre-assignment results to the AMS if Carrier_Preassignment_Indication is set to 1 in the AAI_HO_CMD message.

GroupResolution

Decision of Group: Principle

Modify the text (line 64, page 314) as follows:

~~The serving ABS will forward the information received from AAI_MC-REQ message to the target ABS(s) for secondary carrier pre-assignment. The serving ABS will reply the secondary carrier pre-assignment results to the AMS if Carrier_Preassignment_Indication is set to 1 in the AAI_HO_CMD message.~~

If the serving ABS determines that the secondary carriers need to be preassigned, the serving ABS shall forward the multicarrier capability information of the AMS to the target ABS(s). The serving ABS shall also respond with the secondary carrier pre-assignment results to the AMS using the Pre-assigned secondary carrier information in the AAI_HO_CMD message.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Inuk Jung

Membership Status: Member

Date: 2010-08-13

Comment # A10099

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 315 Line 8 Fig/Table# Subclause 16.2.8.2.9.2.2

There is a missing scenario for MCHO. A single RF AMS may still perform multi-carrier aggregation and hence may perform EBB HO with HO_Reentry_Interleaving_Interval>0. The restriction of MC capable AMS not able to have HO_Reentry_Interleaving_Interval>0 should be released.

Suggested Remedy

Review and adopt proposed text in contribution C802.16m-10/1053 or its latest version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The proposed remedy is incomplete.

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions b) none needed

Comment by: Eunkyung Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10100

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 319 Line 11 Fig/Table# Subclause 16.2.8.2.10.2

In order to support idle state if multicarrier feature is supported by the AMS and ABS minimizing the modification current draft in idle mode and multicarrier operation, following operation should be considered.

- PGID_Info message is transmitted in all carriers including fully and partially configured carrier.
- Any traffic pointed by A-MAP IE does not transmitted in the dedicated carrier but AAI_E-MBS-CFG message is transmitted in the dedicated carrier.
- PGID_Info and PAG-ADV message should be transmitted via an corresponded carrier met the equation "Paging carrier index = DID modulo N."
- It may not impact on the normal idle mode.
- It degrades the overhead in the dedicated carrier.
- Carrier switching is necessary to perform location update which is done via primary carrier.
- In order to avoid any interruption of E-MBS during paging, any E-MBS traffic is not transmitted during the paging listening interval.

Suggested Remedy

Please adopt the text proposal in IEEE C802.16m-10/0978 or its lastest revision.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The proposal impacts on E-MBS data transmission and it may complicate E-MBS server and Paging controller.

Vote:

In favor: 2

Opposed: 6

Abstain:

Group's Notes

Clause 16.2.8, MAC: Multicarrier operation

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Soojung Jung

Membership Status: Member

Date: 2010-08-13

Comment # A10101

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial
incorrect reference

Part of Dis Satisfied

Page 331 Line 4

Fig/Table#

Subclause 16.2.11.1.1

Suggested Remedy

[Modify the text as follows]

in section<ins> 16.11 </ins> 10.1 Global values

GroupResolution

Decision of Group: Agree

[Modify the text as follows]

in section<ins> 16.11 </ins> 10.1 Global values

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.11, MAC: Bandwidth Request and Allocation Mechanism

Editor's Notes

Editor's Actions a) done

Comment by: Heejeong ChoMembership Status: NonmemberDate: ?Comment # A10102Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 331 Line 10 Fig/Table# Subclause 16.2.11.1.1

There are still ambiguous descriptions and incorrect figure.

1. Clarify the description related to implicit-NACK (line 10 in page 331)

According to D7, at least one BR-ACK A-MAP IE shall be sent at the DL frame of the frame n+BR_ACK_Offset if the ABS detects at least one BR preamble sequence in the BR opportunities of frame n and does not grant UL resources to all the successfully received BR requests before or in the frame n+BR_ACK_Offset. If no BR-ACK A-MAP IEs are sent at the DL frame of frame n+BR_ACK_Offset, the AMS considers it as an implicit-NACK and may restart BR procedure. However, the AMS should not consider only no reception of the BR-ACK A-MAP IE when AMS decide it has received an implicit-NACK. That's because BR-ACK A-MAP IE can be omitted by providing all UL BW allocation for all the successfully received BR requests before or in the frame n+BR_ACK_Offset.

2. Clarify the description related to time when BR-ACK A-MAP IE is sent (line 15 in page 331)

Because BR-ACK A-MAP IE is sent at the frame n+BR_ACK_Offset, not frame n+1, current text (from line 17 to 23 in page 331) is incorrect. Each BR-ACK A-MAP IE should include the decoding status of all BR opportunities in frame n.

3. Clean-up of the Figure the 428 (line 1 in page 333)

In 5-step random access BR procedure, ABS sends UL grant for UL data, not for standalone BR header at step-4. And then, AMS sends UL data, not BR header at step-5.

Suggested Remedy

Adopt contribution C80216m-10/1004 or later version.

GroupResolution

Decision of Group: Principle

Adopt contribution C80216m-10/1004r2

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.11, MAC: Bandwidth Request and Allocation Mechanism

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Soojung Jung

Membership Status: Member

Date: 2010-08-13

Comment # A10103

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 331 Line 38 Fig/Table# Subclause 16.2.11.1.1

typo

Suggested Remedy

[Modify the text as follows]

The AMS shall start a BR timer if the AMS receives a BR-ACK A-MAP IE indicating a successful receiption

GroupResolution

Decision of Group: Agree

[Modify the text as follows]

The AMS shall start a BR timer if the AMS receives a BR-ACK A-MAP IE indicating a successful receiption

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.11, MAC: Bandwidth Request and Allocation Mechanism

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Soojung Jung

Membership Status: Member

Date: 2010-08-13

Comment # A10104

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 333 Line 17 Fig/Table# 428 Subclause 16.2.8.1
step 4 and step 5 of Figure 438 need to be corrected

Suggested Remedy

adopt the proposed text in the latest version of contribution C80216m-10_0982

GroupResolution

Decision of Group: Agree

adopt the proposed text in contribution C80216m-10_0982. Changes only in step 4 & 5.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.11, MAC: Bandwidth Request and Allocation Mechanism

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jaehyuk Jang

Membership Status: Member

Date: 2010-08-12

Comment # **A10105**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 333 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.

Suggested Remedy

[Insert the following sentence in pp. 615, line 51:]

In the regular 5-step random access BR procedure, an AMS shall send a BR preamble sequence only. <ins> **The AMS shall select the BR preamble randomly among 24 BR preamble indices.**</ins>

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

There may be other ways to allocate the preamble index.

Vote:

In favor: 15

Opposed: 7

Abstain: 3

Group's Notes

Clause 16.2.11, MAC: Bandwidth Request and Allocation Mechanism

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # **A10106**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial

Part of Dis Satisfied

Page 333 Line 64

Fig/Table#

Subclause 16.2.11.1.3

wrong section number

Suggested Remedy

Piggybacked bandwidth request is used by the AMS to request bandwidth for the same or different connections of the data payload in the MAC PDU. It is carried in the extended header defined in section 16.2.2.2.96.

GroupResolution

Decision of Group: Agree

Piggybacked bandwidth request is used by the AMS to request bandwidth for the same or different connections of the data payload in the MAC PDU. It is carried in the extended header defined in section 16.2.2.2.96.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.11, MAC: Bandwidth Request and Allocation Mechanism

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Soojung Jung

Membership Status: Member

Date: 2010-08-13

Comment # A10107

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 333 Line 65

Fig/Table#

Subclause 16.2.11.1.3

incorrect reference

Suggested Remedy

[Modify the text on page 333, line 65 as follows]

it is carried in the extended header defined in section<ins> 16.2.2.6</ins> 16.2.2.2.9

[Modify the text on page 387, line 54 as follows]

PBREH as defined in <ins> 16.2.2.6</ins> 16.2.2.2.9

GroupResolution

Decision of Group: Agree

[Modify the text on page 333, line 65 as follows]

it is carried in the extended header defined in section<ins> 16.2.2.6</ins> 16.2.2.2.9

[Modify the text on page 387, line 54 as follows]

PBREH as defined in <ins> 16.2.2.6</ins> 16.2.2.2.9

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.11, MAC: Bandwidth Request and Allocation Mechanism

Editor's Notes

Editor's Actions a) done

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10108

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 351 Line 38 Fig/Table# 785 Subclause 16.2.12.8

Default service flows are activated with predefined QoS parameters(table 785) after successful completion of Registration transaction. Per table 785 current text mentions that 'IP Masked Source Address parameter' and ' IP Masked Destination Address parameter' are included. However, both items does not give any information and there is no guarantee that IP is used.

Hence we suggest replacing 'include' with 'omit'.

If 'IP Masked Source Address parameter' is omitted, it implies 'comparison of the IP packet source address for this entry is irrelevant' and

If ' IP Masked Destination Address parameter' is omitted, it implies 'comparison of the IP packet destination address for this entry is irrelevant'.

Suggested Remedy

Table 785—Parameters for default service flow setting

Name	Value/Note
.....
Packet classification rule parameter	Packet Classification Rule Index field =2, Classification Action Rule =0 protocol field : omit IP Masked Source Address parameter : include <ins>omit</ins> IP Masked Destination Address parameter : include <ins>omit</ins> Protocol Source Port Range field : omit Protocol Destination Port Range field : omit Associated PHSI field : omit IP Type of Service : omit

GroupResolution

Decision of Group: Principle

Table 785—Parameters for default service flow setting

Name	Value/Note
------	------------

.....
Packet classification rule parameter	Packet Classification Rule Index field =2, Classification Action Rule =0 protocol field : omit IP Masked Source Address parameter : include <ins>omit (in DL)</ins> IP Masked Destination Address parameter : incude <ins>omit (in UL)</ins> Protocol Source Port Range field : omit Protocol Destination Port Range field : omit Associated PHSI field : omit IP Type of Service : omit

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.12, MAC: Quality of Service (QoS)

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Anil Agiwal

Membership Status: Member

Date: ?

Comment # A10109

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 354 Line 27 Fig/Table# 431 Subclause 16.2.13.1.2

The figure 431 needs correction, PFEH should be PEH.

Suggested Remedy

Replace PFEH by PEH on line 27 in figure 431, page 354

GroupResolution

Decision of Group: Agree

Replace PFEH by PEH on line 27 in figure 431, page 354

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.13, MAC: ARQ mechanism

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hyunkyu Yu

Membership Status: Member

Date: 2010-08-13

Comment # A10110

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 367 Line 62 Fig/Table# Subclause 16.2.14.1

In MC operation, an AMS can operate over multiple carriers with the sum of FFT sizes that is larger than 2048 subcarriers. In that case, total number of HARQ channels can be larger than 16. However, ACID field in assignment A-MAP IE can only indicate maximum 16 values (4 bits). To solve the problem above, in the implementation side, AMS and ABS can have their own mapping rules based on carrier index and 4-bit ACID. But this approach may lead HARQ channels to be unsynchronized between ABS and AMS in case of A-MAP loss and HARQ feedback false detection, increasing AMS/ABS complexities to control various error cases.

Suggested Remedy

Adopt the text proposal in IEEE C802.16m-10/0828r1 or its latest revision.

GroupResolution

Decision of Group: Agree

Adopt the text proposal in IEEE C802.16m-10/0828r2

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.14, MAC: HARQ Functions

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hyunkyu Yu

Membership Status: Member

Date: 2010-08-13

Comment # A10111

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 381 Line 18 Fig/Table# Subclause 16.2.14.4.1

Remedy was not correctly implemented in comment #174 (C802.16m_0829r1) which was agreed in Session #68. Multiplication sign is missed.

Suggested Remedy

[Remedy-1: change the following text in page 381, line 18, subcluse 16.2.14.4.1, as]

The AI_SN keeps toggling every ACID cycling period (=allocation period <ins> x </ins> N_ACID) until...

[Remedy-2: change the following text in page 381, line 39, subcluse 16.2.14.4.2, as]

The AI_SN keeps toggling every ACID cycling period (=allocation period <ins> x </ins> N_ACID) until...

GroupResolution

Decision of Group: Agree

[Remedy-1: change the following text (add multiplication sign) in page 381, line 18, subcluse 16.2.14.4.1, as]

The AI_SN keeps toggling every ACID cycling period (=allocation period <ins> x </ins> N_ACID) until...

[Remedy-2: change the following text (add multiplication sign) in page 381, line 39, subcluse 16.2.14.4.2, as]

The AI_SN keeps toggling every ACID cycling period (=allocation period <ins> x </ins> N_ACID) until...

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.14, MAC: HARQ Functions

Editor's Notes

Editor's Actions a) done

Comment by:

Ying Li

Membership Status: MemberDate: 2010-08-12Comment # A10112Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 383 Line 63 Fig/Table# Subclause 16.2.5

In the current draft D7, the preferred cell type in network entry like in Fig. 443 may have dead loop in network entry, or it may make the network entry a very large latency.

1. If the AMS prefers femtocell to macrocell, if the detected cell is not the preferred type (e.g., the femtocell), the AMS would scan again and again, until it gets on a femto. If indeed there is no femto in the proximity, the AMS would be in a dead loop because of the preferred type according to Fig. 443.
2. If the AMS does not have any preamble partition information which is used to differentiate the cell type, the AMS has to wait until it gets such partition information, then to check whether the detected cell is of its preferred type. This adds on the delay or latency in network entry.

Remedy:

1. Make the preferred cell type optional to the AMS. In network entry, the AMS may ignore the check box of preferred cell type if there is no preferred type detected.
2. If the preamble partition information is not available, the AMS can perform network entry without considering the preferred type, then handover to its preferred type upon the AMS can recognize the cell of preferred type.

Suggested Remedy

Please adopt the text in contribution C80216m-10_1050 or its latest version.

GroupResolutionDecision of Group: Principle

<ins>In network entry, if the AMS cannot attach to the preferred cell, 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. </ins>

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.15, MAC: Network Entry and Initialization

Editor's NotesEditor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10113

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 388 Line 8 Fig/Table# Subclause 16.2.15.4

The section 16.2.15.4 describes basic capability negotiation procedure during network entry. However, the description follows the logic based on the assumption that capability class only is used for AMS capability negotiation. Now, we have the concept of device class separately from the capability class and allow negotiation of configuration parameter and features one by one. Hence, we need fix the current text .

Suggested Remedy

Adopt the proposed text in contribution C802.16m-10/1021 or its later version.

GroupResolution

Decision of Group: Principle

Adopt the proposed text in contribution C802.16m-10/1021r1.

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10114

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 390 Line 31 Fig/Table# Subclause 16.2.15.6

Default service flows are activated after successful completion of Registration transaction. However, the QoS parameters values for the DSF is predefined and there is no method for their update. That is, it does not permit the flexibility of changing/customizing the values by the operators for their subscribers in a different deployment or for a different usage scenario.

Hence we suggest remedies to update default QoS parameters.

Suggested Remedy

Adopt the proposed text in contribution C802.16m-10/1015 or its later version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

If the parameter need to changed, then default service flow shall be made during DSX mechanism or DSC mechanism is more desirable.

Group's Notes

Clause 16.2.15, MAC: Network Entry and Initialization

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Giwon Park

Membership Status: Member

Date: 2010-08-13

Comment # A10115

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 393 Line 17 Fig/Table# Subclause 16.2.17.1

Text is unclear.

Suggested Remedy

Adopt the following modification.

The ABS shall ignore an AMS's request if the ABS has already initiated a **change** [sleep mode initiation](#) request.

GroupResolution

Decision of Group: Agree

Adopt the following modification.

The ABS shall ignore an AMS's request if the ABS has already initiated a **change** [sleep mode initiation](#) request.

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:

Jaesun Cha

Membership Status: MemberDate: ?Comment # A10116Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 394 Line 28 Fig/Table# Subclause 16.2.17.2.1

The following sentences describes the same situation but describes New Initial Sleep Cycle with different words. Because the second sentence is redundant and misleading, it should be removed.

"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 indicator. In this case, after receiving positive TRF_IND, the sleep cycle will be reset to some other value as defined by NSCF parameter."

Suggested Remedy

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 indicator. ~~In this case, after receiving positive TRF_IND, the sleep cycle will be reset to some other value as defined by NSCF parameter.~~

GroupResolutionDecision of Group: Principle

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 ~~indicator~~ indication. ~~In this case, after receiving positive TRF_IND, the sleep cycle will be reset to some other value as defined by NSCF parameter.~~

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.17, MAC: Sleep Mode

Editor's NotesEditor's Actions a) done

Comment by:

Jaesun Cha

Membership Status: MemberDate: ?Comment # A10117Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 395 Line 42 Fig/Table# Subclause 16.2.17.2.3.1

The response to AAI_TRF_IND-REQ message is AAI_TRF_IND-RSP message, not a traffic indication.

Suggested Remedy

Traffic Indication is considered positive when the AAI_TRF-IND message is lost or not detected by the AMS, but unicast data is received by the AMS. If the AMS receives any unicast data during the listening window, then it considers that the traffic indication was positive. If the AMS receives neither the traffic indication message nor any unicast data in the Listening Window, the AMS shall then send an AAI_TRF_IND-REQ message after its current default listening window to ask the ABS the location of next scheduled Listening Window. The ABS shall respond to the AMS by unicasting an AAI_TRF_IND-RSP message containing the starting frame number and the length of next Sleep Cycle. On receiving the ~~traffic indication~~[AAI_TRF_IND-RSP message](#), the AMS shall be synchronized with the next Sleep Cycle.

GroupResolutionDecision of Group: Agree

Traffic Indication is considered positive when the AAI_TRF-IND message is lost or not detected by the AMS, but unicast data is received by the AMS. If the AMS receives any unicast data during the listening window, then it considers that the traffic indication was positive. If the AMS receives neither the traffic indication message nor any unicast data in the Listening Window, the AMS shall then send an AAI_TRF_IND-REQ message after its current default listening window to ask the ABS the location of next scheduled Listening Window. The ABS shall respond to the AMS by unicasting an AAI_TRF_IND-RSP message containing the starting frame number and the length of next Sleep Cycle. On receiving the ~~traffic indication~~[AAI_TRF_IND-RSP message](#), the AMS shall be synchronized with the next Sleep Cycle.

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

Clause 16.2.17, MAC: Sleep Mode

Editor's NotesEditor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10118

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 397 Line 5 Fig/Table# Subclause 16.2.17.2.3.2

Expiration of T_ABS timer is independent with the exhaustion of DL HARQ retransmission trials. If ABS receives ACK from AMS, HARQ retransmission procedure will stop. In this case, those two conditions will not be met at the same time.

Suggested Remedy

After the default listening window ends, if the T_ABS timer expires ~~and~~or the number of DL HARQ retransmission is exhausted for DL of the AMS, the ABS shall regard the AMS as returning to sleep (i.e., the Sleep Window starts).

GroupResolution

Decision of Group: Principle

After the default listening window ends, if the T_ABS timer expires ~~and the number of DL HARQ retransmission is exhausted~~ or there is no pending HARQ retransmission for DL of the AMS, the ABS shall regard the AMS as returning to sleep (i.e., the Sleep Window starts).

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.17, MAC: Sleep Mode

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10119

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 397 Line 39

Fig/Table#

Subclause 16.2.17.2.4

wrong name

Suggested Remedy

Alternatively, the ABS may initiate a Sleep Cycle parameter change by sending an unsolicited AAI_SLP-RSP [message](#) or SCH ~~message~~ to the AMS.

GroupResolution

Decision of Group: Agree

Alternatively, the ABS may initiate a Sleep Cycle parameter change by sending an unsolicited AAI_SLP-RSP [message](#) or SCH ~~message~~ to the AMS.

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:

Jaesun Cha

Membership Status: MemberDate: ?Comment # A10120Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 397 Line 50 Fig/Table# Subclause 16.2.17.2.4

If ABS rejects AMS's request for Sleep Cycle Change, it may transmit unsolicited AAI_SLP-RSP or SCH after the completion of DSA transaction. Why does ABS always request the AMS to transmit AAI_SLP-REQ by including REQ_duration even though the final decision on Sleep Cycle Change is made by the ABS?

Suggested Remedy

Otherwise, the ABS shall either omit the entire Sleep Cycle Setting or include both the Response Code = 0b10 (i.e., Reject) and/or REQ_duration in AAI_DSx-RSP message, as rejection of the AMS's request.

GroupResolutionDecision of Group: Principle***[Modify text on page 397, line 50 as follows:]***

Otherwise, the ABS shall either omit the entire Sleep Cycle Setting or include both the Response Code = 0b10 (i.e., Reject) and/or REQ_duration in AAI_DSx-RSP message, as rejection of the AMS's request.

[Modify table 709 on page 150, line 47 as follows:]

<p>O REQ_duration 8 Waiting value for the AAI_SLP-REQ message retransmission , which is the Least Significant 8 bits of Frame Number. <u>If REQ_duration is missing when Response_Code == 0b10, it shall be regared as REQ_duration = 0</u> 0~255</p>	<p><u>REQ_duration may be included only</u> <u>w</u>When (Response_Code == 0b10)</p>
--	---

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.17, MAC: Sleep Mode

Editor's NotesEditor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Yeongmoon Son

Membership Status: Member

Date: 2010-08-10

Comment # A10121

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 397 Line 50 Fig/Table# Subclause 16.2.17.2.4

The contribution(10/0953) proposes to clean up Sleep Cycle Setting in DSx-REQ/RSP message which has TLV format. It should be transformed into the same format as other tables to support ASN.1 PER.

Suggested Remedy

[Adopt the proposed text in contribution C80216m-10/0953 or its later version.]

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

There is an unnecessary condition included in the table.

Group's Notes

Clause 16.2.17, MAC: Sleep Mode

Editor's Notes

Editor's Actions b) none needed

Comment by: Yeongmoon SonMembership Status: MemberDate: 2010-08-10Comment # A10122Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type General Part of Dis Satisfied Page 398 Line 60 Fig/Table# Subclause 16.2.17.2.5

Editorial comment. CQICH should be replace with FF BCH.

Suggested Remedy**[Modify the section title on page 398, line 60, for consistency, as follows]**

16.2.17.2.5 CQI<ins>FFBCH</ins> operation during Sleep Mode

[Modify the parameter on page 905, line 50, for consistency, as follows]

--CQI<ins>FFBCH</ins>_operation indication

cqi<ins>ffbch</ins>Operation

INTEGER (0..2) OPTIONAL,

- 0: the CQICH<ins>FFBCH</ins> assigned to the AMS is kept.
- 1: the CQICH<ins>FFBCH</ins> is deallocated at the frame specified by startFrameNumber.
- 2: the CQICH<ins>FFBCH</ins> is automatically deallocated at the beginning of the sleep window whenever the CQICH is newly assigned to the AMS during the Listening

-- Window.

GroupResolutionDecision of Group: Agree**[Modify the section title on page 398, line 60, for consistency, as follows]**

16.2.17.2.5 CQI<ins>FFBCH</ins> operation during Sleep Mode

[Modify the parameter on page 905, line 50, for consistency, as follows]

--CQI<ins>FFBCH</ins>_operation indication

cqi<ins>ffbch</ins>Operation

INTEGER (0..2) OPTIONAL,

- 0: the CQICH<ins>FFBCH</ins> assigned to the AMS is kept.
- 1: the CQICH<ins>FFBCH</ins> is deallocated at the frame specified by

- startFrameNumber.
- 2: the CQICH<ins>FFBCH</ins> is automatically
- deallocated at the
- beginning of the sleep
- window whenever the CQICH
- is newly assigned to the
- AMS during the Listening

-- Window.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.17, MAC: Sleep Mode

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # **A10123**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment **Type** **Technical** **Part of Dis** **Satisfied** **Page** **399** **Line** **34** **Fig/Table#** **Subclause** **16.2.17.2.6.1**

For clarification

Suggested Remedy

- the ABS has indicated a return to normal Sleep Cycle operation by sending ~~SCH~~sleep-control-information with Resume Sleep Cycle Indication set to the AMS.

GroupResolution

Decision of Group: **Agree**

- the ABS has indicated a return to normal Sleep Cycle operation by sending ~~SCH~~sleep-control-information with Resume Sleep Cycle Indication set to the AMS.

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:

Jaesun Cha

Membership Status: MemberDate: ?Comment # A10124Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 399 Line 42 Fig/Table# Subclause 16.2.17.2.6.1

The ABS can not cancel the scheduled Sleep Cycle interruption because the AMS is in Sleep Window right after receiving SCH with Scheduled Sleep Cycle Indication. Moreover, how to cancel the scheduled Sleep Cycle interruption is not defined in the current draft.

Suggested Remedy

If normal Sleep Cycle operation is resumed via the ABS sending Resume Sleep Cycle Indication to the AMS, the ABS may send the expected control signaling response in a Listening Window of a normal Sleep Cycle or in a specific scheduled Sleep Cycle interruption. When a scheduled Sleep Cycle interruption is used, the ABS may specify the starting time of the scheduled Sleep Cycle interruption relative to SCH along with Resume Sleep Cycle Indication. ~~If the scheduled Sleep Cycle interruption has not been cancelled,~~ The AMS shall be in a listening mode regardless of its current Sleep Cycle state from the specified start time of the scheduled Sleep Cycle interruption until either the AMS receives the expected ABS response or times out waiting for the response. At the end of the scheduled Sleep Cycle interruption, normal Sleep Cycle operation shall resume after accounting for the time elapsed during the scheduled Sleep Cycle interruption. The occurrence of a scheduled Sleep Cycle interruption does not impact the length and frame location of the Sleep Cycle(s) to which it coincides.

GroupResolutionDecision of Group: Agree

If normal Sleep Cycle operation is resumed via the ABS sending Resume Sleep Cycle Indication to the AMS, the ABS may send the expected control signaling response in a Listening Window of a normal Sleep Cycle or in a specific scheduled Sleep Cycle interruption. When a scheduled Sleep Cycle interruption is used, the ABS may specify the starting time of the scheduled Sleep Cycle interruption relative to SCH along with Resume Sleep Cycle Indication. ~~If the scheduled Sleep Cycle interruption has not been cancelled,~~ The AMS shall be in a listening mode regardless of its current Sleep Cycle state from the specified start time of the scheduled Sleep Cycle interruption until either the AMS receives the expected ABS response or times out waiting for the response. At the end of the scheduled Sleep Cycle interruption, normal Sleep Cycle operation shall resume after accounting for the time elapsed during the scheduled Sleep Cycle interruption. The occurrence of a scheduled Sleep Cycle interruption does not impact the length and frame location of the Sleep Cycle(s) to which it coincides.

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.17, MAC: Sleep Mode

Editor's NotesEditor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yuqin Chen

Membership Status: Member

Date: 2010-08-13

Comment # A10125

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 408 Line 55 Fig/Table# Subclause 16.2.18.2.3

In order to support the legacy ASN, the ABS/AMS has to bridge the gap between the legacy ASN-GW and the 16m AMS/ABS. For example, the paging listening interval relevant parameters, such as paging cycle and paging offset are quite different between 16e and 16m. The mapping of paging cycle and paging offset has to be done by the AMS and ABS.

Suggested Remedy

If the ABS is attached to the legacy network, the ABS should map the paging cycle and paging offset in terms of frame to super-frame. The paging cycle and paging offset in terms of super-frame shall be sent to the AMS for paging.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

No specific remedy provided.

Group's Notes

Clause 16.2.18, MAC: Idle Mode

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jin Lee

Membership Status: Member

Date: ?

Comment # A10126

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 415 Line 30 Fig/Table# Subclause 16.2.20

From texts in line 25, the ABS and AMS shall maintain the original timing relationship even after collision with CLC active interval in case of synchronous HARQ. If this is the case, the figure 455 is not correct. The allocation scheduled for the 2nd retransmission shall be in the first UL subframe instead of 2nd subframe and the first UL subframe shall be used for the 1st retransmission.

Suggested Remedy

Modify the figure 455:

Make the 1st UL subframes in 3rd, 4th frame as the use of HARQ retransmission (instead of 2nd UL subframes)

GroupResolution

Decision of Group: Principle

Modify the figure 455:

Move the location of the retransmissions to the first UL subframe in each frame. Change 1st re-transmission to 2nd re-transmission and 2nd re-transmission to 3rd re-transmission.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.20, PHY: Co-located coexistence

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jin Lee

Membership Status: Member

Date: ?

Comment # A10127

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 415 Line 56 Fig/Table# Subclause 16.2.20

The serving ABS shall accept the request from AMS if the requested CLC class meets the CLC limits or it shall reject the request.

Suggested Remedy

Modify texts from page 415 line 56 as following :

Otherwise, if the requested CLC class does not meet the CLC limits, the serving ABS may reject or accept the request,

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

original sentence is correct operation of the protocol.

Group's Notes

Clause 16.2.22, MAC: MAC Control Reliability

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jin Lee

Membership Status: Member

Date: ?

Comment # A10128

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 415 Line 60 Fig/Table# Subclause 16.2.20

The process of determining whether a CLC class meets the CLC limits is not specified in section 16.2.12. Correct the section number.

Suggested Remedy

Modify texts as following :

The process of determining whether a CLC class meets the CLC limits for Type I, II, and III classes is specified in 16.2.12
<ins> 16.2.20.1, 16.2.20.2 and 16.2.20.3 respectively </ins>

GroupResolution

Decision of Group: Agree

Modify texts as following :

The process of determining whether a CLC class meets the CLC limits for Type I, II, and III classes is specified in 16.2.12
<ins> 16.2.20.1, 16.2.20.2 and 16.2.20.3 respectively </ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.22, MAC: MAC Control Reliability

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jin Lee

Membership Status: Member

Date: ?

Comment # A10129

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 416 Line 34 Fig/Table# 456 Subclause 16.2.20

'CLC Request : accept' (line 34) shall be changed with 'CLC Response : accept'

Suggested Remedy

'CLC Request : accept' (line 34) shall be changed with 'CLC Response : accept'

GroupResolution

Decision of Group: Agree

'CLC Request : accept' (line 34) shall be changed with 'CLC Response : accept'

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.22, MAC: MAC Control Reliability

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jin Lee

Membership Status: Member

Date: ?

Comment # A10130

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 416 Line 51 Fig/Table# Subclause 16.2.20

Activated CLC classes can be deactivated by the confirmation from ABS no matter whether the AMS is in active mode, sleep mode, or scanning mode.

Suggested Remedy

Modify texts from page 416 line 51 as following :

An active CLC class shall remain active until it has been deactivated by the AMS <ins>ABS </ins>

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

the ABS has no control to deactivate a CLC class as long the CLC meets the CLC limits

vote: 9 for, 9 against, 0 abstain

Group's Notes

Clause 16.2.22, MAC: MAC Control Reliability

Editor's Notes

Editor's Actions b) none needed

Comment by: Jinsoo Choi

Membership Status: Member

Date: 2010-08-13

Comment # A10131

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 430 Line 27 Fig/Table# Subclause 16.2.24

In description (a) to (c), 'between the last received S-SFH counts and the corresponding stored values' is a little confusing to express the current updating procedure. It is recommended to use the description in C802.16m-10/0824r1 which was harmonized among companies and accepted in the previous #68 session.

Suggested Remedy

Modify the current description in page 430 as following

The AMS shall compare the value of S-SFH change count in the current P-SFH IE with that stored last, whenever the validity check of the last stored S-SFH SP IEs is required.

- a) If there is no difference ~~between the last received S-SFH counts and the corresponding stored values~~ of two S-SFH change counts, the AMS may not decode S-SFH IE during a certain period where S-SFH change count remains unchanged.
- b) Else if the difference ~~between the last received S-SFH counts and the corresponding stored values~~ of two S-SFH change counts is one, the AMS shall update the S-SFH SP IE(s) whose bit in the S-SFH SP change bitmap is set to 1.
- c) Else if the difference ~~between the last received S-SFH counts and the corresponding stored values~~ of two S-SFH change counts is greater than one, the AMS shall update all S-SFH SP IEs.

GroupResolution

Decision of Group: Principle

Resolved by comment #225.

Resolution:

Adopt contribution C802.16m-10/0973r3

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jinsoo Choi

Membership Status: Member

Date: 2010-08-13

Comment # **A10132**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 431 Line 1 Fig/Table# 467 Subclause 16.2.24

In the previous #68 session, the proposed text in C802.16m-10/0824r1 was accepted for clarification of the update of S-SFH IEs section. However, the figures in the contribution were erroneously implemented in D7. C802.16m-10/0995 provides the proposed text to correct that.

Suggested Remedy

Adopt the proposed text in C802.16m-10/0995 or its latest revision.

GroupResolution

Decision of Group: Principle

Resolved by comment #225.

Resolution:

Adopt contribution C802.16m-10/0973r3

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.24, MAC: Update of S-SFH IEs

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jaesun Cha

Membership Status: Member

Date: ?

Comment # A10133

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 433 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 PDU is not defined in 16m draft.

Suggested Remedy

Adopt texts in C802.16m-10/1024

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

This issue can be resolved by the implementation.

Vote:

In favor: 18

Opposed: 14

Abstain: 0

Group's Notes

Clause 16.2.26, MAC: Coverage Detection and Recovery

Editor's Notes

Editor's Actions b) none needed

Comment by: Yeongmoon SonMembership Status: MemberDate: 2010-08-10Comment # A10134Document under Review: P802.16m/D7Ballot ID: sb_16m

<u>Comment</u>	<u>Type</u> Technical	<u>Part of Dis</u> <input type="checkbox"/>	<u>Satisfied</u> <input type="checkbox"/>	<u>Page</u> 433	<u>Line</u> 32	<u>Fig/Table#</u>	<u>Subclause</u> 16.2.26.1
----------------	-----------------------	---	---	-----------------	----------------	-------------------	----------------------------

The sentence in page 433, line 32 seems to be redundant. The intension of Coverage Loss detection procedure is to check whether the AMS is still alive in the ABS. If the ABS receives something from the AMS on the UL burst, resetting active_ABS_timer is enough. ABS doesn't have to send AAI_RNG-ACK message with status "success" to the AMS. It should be optional (i.e. shall --> may). Moreover, periodic ranging operation between AMS and ABS is definiteley indepent of coverage loss procedure. Even though we remove the sentence about AAI_RNG-ACK in coverage loss section, it can be covered by the bullet 'd)' in page 391, line 60 which describes optional transmission fo AAI_RNG-ACK.

Suggested Remedy***[Remove the sentence on page 433, line 32, as follows]*****16.2.26.1 Coverage loss detection at ABS and ABS's behavior**

.....

Upon each expiration of the active_ABS_timer, to check whether an AMS is still alive in active mode, the ABS shall grant UL burst to the AMS and the AMS shall transmit a MAC PDU with data or if no data pending to be transmitted, then just with padding bytes on the UL grant. If the ABS successfully receives an UL data burst from the AMS in the UL allocation granted to it, the ABS shall reset the active_ABS_timer for the AMS. The ABS shall send a unicast AAI_RNG-ACK message with status "success" to the AMS with or without adjustment parameters based on the measurement on the received UL burst from the AMS.

GroupResolutionDecision of Group: Principle

Accept the resolutions in contribution c80216m-10/1088.

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.2.26, MAC: Coverage Detection and Recovery

Editor's NotesEditor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Inuk Jung

Membership Status: Member

Date: 2010-08-13

Comment # A10135

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 434 Line 1 Fig/Table# Subclause 16.2.26.1

Re-initiation of Coverage loss detection after HO would be when ABS receives a HO cancel (i.e. AAI_HO-IND) indication from an AMS, instead of a random MAC PDU. This is because the role of AAI_HO-IND cancel message is a solid message that actually implies that the AMS is coming back to the serving ABS, which should be the time when coverage loss should be re-initiated.

Suggested Remedy

Modify text as follows:

Once the ABS receives a ~~<ins> AAI_HO-IND message with HO Event Code 0b100 (i.e. HO cancel)</ins> MAC-PDU (i.e. bandwidth request)~~ from the AMS that is assumed to handover to a neighbor ABS (i.e. T-ABS), the ABS shall initiate the coverage loss detection procedure (i.e. described in 16.2.26.2) for the AMS

GroupResolution

Decision of Group: Principle

Accept the resolutions in contribution c80216m-10/1088.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.26, MAC: Coverage Detection and Recovery

Editor's Notes

Editor's Actions a) done

Comment by: Yeongmoon SonMembership Status: MemberDate: 2010-08-10Comment # A10136Document under Review: P802.16m/D7Ballot ID: sb_16m

<u>Comment</u>	<u>Type</u> Technical	<u>Part of Dis</u> <input type="checkbox"/>	<u>Satisfied</u> <input type="checkbox"/>	<u>Page</u> 434	<u>Line</u> 18	<u>Fig/Table#</u>	<u>Subclause</u> 16.2.26.2
----------------	-----------------------	---	---	-----------------	----------------	-------------------	----------------------------

1. In the coverage loss, once the AMS has ever detected a link loss with a serving ABS, the AMS shall perform the network 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 network 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 clarify 'otherwise' in page 434, line 37

Suggested Remedy

[Modify section 16.2.26.2 on page 434, line 18, 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 ~~and shall start Resource_Retain_Time (see Table 681)~~.

....

[Modify section 16.2.26.3 on page 434, line 31, 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, which could be its previous serving ABS before the coverage loss, ~~if the Resource_retain_time(see Table 681) does not expire, the AMS shall perform network reentry with Serving BSID and STID (see Table 680).~~ the AMS shall perform network reentry ~~Else~~ if the AMS has been getting the information about previous Serving ABS (e.g., serving ABSID) ~~, the AMS shall perform network reentry~~ as indicated below. ~~Otherwise,~~ ~~Else if the AMS has no information about previous Serving ABS, which it has registered, due to some error (e.g. battery run-out)~~ the AMS shall perform initial network entry.

.....

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

Since ABS and AMS have their own coverage detection algorithm (i.e., $N_{LOST-SFH}$ and active_ABS_timer), resource retain timer maintained at ABS and AMS may not be synchronized and the maintenance of resource retain timer at AMS may be meaningless. Therefore, AMS shall always include CRID, Serving BSID and STID regardless of resource retain timer and ABS has to determine the network entry type and optimization level.

vote: 5 for, 7 against, 0 abstain

Group's Notes

Clause 16.2.26, MAC: Coverage Detection and Recovery

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jin Lee

Membership Status: Member

Date: ?

Comment # A10137

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment **Type** Technical **Part of Dis** **Satisfied** **Page** 434 **Line** 36 **Fig/Table#** **Subclause** 16.2.26.3

It is not the matter if the discovered ABS is the previous serving ABS before coverage loss or not when to try re-entry procedure.

Suggested Remedy

Modify texts in page 434 line 36 as following :

, which could be its previous serving ABS before the coverage loss, the AMS shall perform network reentry if the AMS has been getting information about previous Serving ABS (e.g., serving ABS) as indicated below. Otherwise, the AMS shall perform initial network entry .

GroupResolution

Decision of Group: Principle

Accept the resolutions in contribution c80216m-10/1088.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.2.26, MAC: Coverage Detection and Recovery

Editor's Notes

Editor's Actions a) done

Comment by: Eunkyung KimMembership Status: MemberDate: 2010-08-13Comment # A10138Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 442 Line 55 Fig/Table# Subclause 16.3.3.1
 E-MBS burst may not be allocated per AAI subframe.

Suggested Remedy

[Modify the line 51-58, pp 442, P802.16m/D7 as follws.]

ABS shall not allocate more than 1 broadcast data burst with time domain repetition per frame and 1 broadcast data burst without time domain repetition per AAI subframe (using Broadcast Assignment A-MAP IE with the field "Transmission Format" indicating with or without time domain repetition) and 1 E-MBS burst (using E-MBS A-MAP IE) per AAI subframe. Here, a long TTI burst shall be counted as one burst for each and every AAI subframe that the long TTI burst spans.

GroupResolutionDecision of Group: Principle

[Modify the line 51-58, pp 442, P802.16m/D7 as follows.]

ABS shall not allocate more than 1 <ins>one</ins> broadcast data burst with time domain repetition per frame and 1 <ins>one</ins> broadcast data burst without time domain repetition per AAI subframe (using Broadcast Assignment A-MAP IE with the field "Transmission Format" indicating with or without time domain repetition) and 1 E-MBS burst (using E-MBS A-MAP IE) per AAI subframe. Here, a long TTI burst shall be counted as one burst for each and every AAI subframe that the long TTI burst spans.

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.3.3, PHY: Frame structure

Editor's NotesEditor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Yuqin Chen

Membership Status: Member

Date: 2010-08-13

Comment # A10139

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 455 Line 38 Fig/Table# Subclause 16.3.3.5

To support legacy system, 16e and 16m could be supported by one single carrier or different carriers. For operators who own multiple carriers, one new carrier could be assigned to support 16m system. However, in current 16m draft, only one single carrier deployment for coexistence of 16e and 16m is mentioned, which brings confusion to people. Therefore, it is suggested to make the text clearer.

Suggested Remedy

Suggest to discuss and adopt the text proposal in C80216m-10_1075 or its latest version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The proposed remedy is not clear.

Group's Notes

Clause 16.3.3, PHY: Frame structure

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Huang

Membership Status: Member

Date: 2010-08-13

Comment # **A10140**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 502 Line 20 Fig/Table# Subclause 16.3.4.4.3

In July meeting, the comment #10213 was agreed. However, the comment #10213 was not correctly implemented in D7.

Suggested Remedy

Add the following new paragraph on line 21, page 502

"<ins> Inside an open-loop region of type 1 or type 2, the MaxMt pilots shall always be transmitted across all CLRUs in that open-loop region. Outside an open-loop region, the pilots shall not be transmitted on CLRUs where no data is sent.</ins>"

GroupResolution

Decision of Group: Principle

Resolved by the resolution to Comment #228:

Insert the following paragraph at line 21 of p. 502:

<ins>Inside an open-loop region of type 1 or type 2, the MaxMt pilots shall always be transmitted across all CLRUs in that open-loop region. Outside an open-loop region, the pilots shall not be transmitted on CLRUs where no data is sent.</ins>

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.4, PHY: Downlink physical structure

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Youngbo Cho

Membership Status: Member

Date: 2010-08-13

Comment # A10141

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 509 Line 53 Fig/Table# Subclause 16.3.6.1

There is no description of A-Preamble boosting levels for multi-carrier mode.

Suggested Remedy

Adopt the contribution C80216m-10/1009 or its latest version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The 16m preamble boosting in legacy support mode results in performance degradation.

Group's Notes

Clause 16.3.5, PHY: Downlink control structure

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Kaushik Josiam

Membership Status: Member

Date: 2010-08-12

Comment # **A10142**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 541 Line 1 Fig/Table# Subclause 16.3.5.2.3

Some clarification in the E-MBS MAP is required. A text clean up is proposed in contribution 1051

Suggested Remedy

Adopt the suggested changes in the latest revision of contribution C802.16m-10/1051

GroupResolution

Decision of Group: Principle

Adopt the suggested changes in contribution C802.16m-10/1051r2

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 YuMembership Status: MemberDate: 2010-08-13Comment # A10143Document under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 545 Line 45 Fig/Table# Subclause 16.3.5.3.2.2

When AMS calculates HF-A-MAP resource index, AMS needs to obtain the HF-A-MAP Index Parameter. But it is not clear where AMS should obtain this HF-A-MAP Index Parameter: when assignment A-MAP IE is transmitted? or when HF-A-MAP is transmitted? Because HF-A-MAP resource index should be scheduled/optimized using both 3-bit HFA value in assignment A-MAP IE and HF-A-MAP Index Parameter in NUS A-MAP IE, we suggest to use HF-A-MAP Index Parameter which is transmitted in the subframe where n is signaled.

We also suggest the same remedy for HARQ feedback channel in UL.

Suggested Remedy

[Remedy-1: Add the following text in page 545, line 45, subclause 16.3.5.3.2.2]

..., where ~~j is HF-A-MAP Index Parameter in the Non-user specific A-MAP IE,~~ n is a 3 bit HFA value in each assignment A-MAP IE, j is HF-A-MAP Index Parameter in the Non-user specific A-MAP IE which is transmitted in the subframe where n is signaled, ...

[Remedy-2: Add the following text in page 695, line 37, subclause 16.3.7.3.3.2]

..., where ~~j is HF-BCH Index Parameter in the Non-user Specific A-MAP IE,~~ n is a 3 bit HFA value signaled in each Assignment A-MAP IEs, j is HF-BCH Index Parameter in the Non-user specific A-MAP IE which is transmitted in the subframe where n is signaled,

GroupResolutionDecision of Group: Principle

Resolved by comment #257.

Resolution:

Adopt the text proposed in C802.16m-10/1062r1

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.3.5, PHY: Downlink control structure

Editor's NotesEditor's Actions b) none needed

Comment by:

Ying Li

Membership Status: MemberDate: 2010-08-12Comment # A10144Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 553 Line 47 Fig/Table# 837 Subclause 16.3.5.5.1.2

In the current draft D7, it uses a bit 'femto indicator' in S-SFH SP1 IE, for the purpose of indicating different ranging configuration of femto and other types of the cells.

We think the key reason to use different ranging configuration is because of the different size or Tx power of the cell. Not only femtocells, but also other small-sized cells can use the same ranging configuration as femto, different from macrocell.

Hence we want to change the femto indicator to the indication of ranging configuration.

- Make the ranging configuration more flexibly related to the cell size, not just the type of the cell.

Suggested Remedy

Please adopt the text in contribution C80216m-10_0970 or its latest version.

GroupResolutionDecision of Group: DisagreeReason for Group's Decision/Resolution

The synchronized ranging channel for initial entry can only be used for the Femto cell.

Vote:

In favor: 8

Opposed: 5

Abstain:

Group's Notes

Clause 16.3.5, PHY: Downlink control structure

Editor's NotesEditor's Actions b) none needed

Comment by: Taeyoung KimMembership Status: MemberDate: 2010-08-13Comment # A10145Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 556 Line 22 Fig/Table# 838 Subclause 16.3.5.5.1.2

The name of OLRegion in Table 838 causes the misunderstanding because it's associated with the use of common SEED in CRU/DRU allocation in only downlink. So, I'd like to change the name from OLRegion to CommonSEED. And the description of this field is not enough to understand, so I propose the detail description for this CommonSEED field in Table 838.

Suggested Remedy*[Remedy-1: Modify the text in line 22, page 556, in Table 838]*

OLRegion <ins>CommonSEED</ins>	1	Provides indication about the structure of the MIMO OL Region. Further details in Section 16.3.4.3.1. <ins>Indicates whether common SEED is used in CRU/DRU allocation (16.3.4.3.1) or not. If CommonSEED=0b0, cell specific SEED is used If CommonSEED=0b1, common SEED is used for OL region type0 and OL region type 1 with NLRU</ins>
--	---	--

[Remedy-2: Modify the text in line 10, page 483 as below]

If the ~~OLRegion~~ CommonSEED parameter in the S-SFH SP2 is set to 0b1, then the SEED and DL_PermBase in FP0 shall both be set to ~~0~~ zero in Equation (198).

GroupResolutionDecision of Group: DisagreeReason for Group's Decision/Resolution

Suggested remedy is more confusing than the original text.

Group's Notes

Clause 16.3.5, PHY: Downlink control structure

Editor's NotesEditor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: William Hillery

Membership Status: Member

Date: ?

Comment # A10146

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 563 Line 42 Fig/Table# Subclause 16.3.5.5.2.1

Fix typographical errors in line 42 of p. 563.

Suggested Remedy

Modify line 42 of p. 563 (in D7) as follows:

in the reuse-1 ~~parititon~~<ins>partition</ins>, and Group 3 using QPSK 1/2 ~~or~~<ins>for</ins> assignment A-MAP in the power-boosted reuse-3

GroupResolution

Decision of Group: Agree

Modify line 42 of p. 563 (in D7) as follows:

in the reuse-1 ~~parititon~~<ins>partition</ins>, and Group 3 using QPSK 1/2 ~~or~~<ins>for</ins> assignment A-MAP in the power-boosted reuse-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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Taeyoung Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10147

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 570 Line 59 Fig/Table# Subclause 16.3.5.5.2.4.1

This is the wrong implementation when editing was performed. (10/0328)

Suggested Remedy

Modify the text as below

The contiguous LRUs <ins>shall</ins> can be constructed from the same LRU type i.e., DLRU, NLRU or SLRU

GroupResolution

Decision of Group: Agree

Modify the text as below

The contiguous LRUs <ins>shall</ins> can be constructed from the same LRU type i.e., DLRU, NLRU or SLRU

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Soojung Jung

Membership Status: Member

Date: 2010-08-13

Comment # A10148

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 596 Line 17 Fig/Table# 855 Subclause 16.3.5.5.2.4.7
typo

Suggested Remedy

[Modify the text as follows]

0b1: Bandwidth allocation <ins> i</ins>n response to a received contention-based ranging request

GroupResolution

Decision of Group: Agree

[Modify the text as follows]

0b1: Bandwidth allocation <ins> i</ins>n response to a received contention-based ranging request

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: 2010-08-13

Comment # A10149

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 598 Line 1 Fig/Table# Subclause 16.3.5.5.2.4.7

The MIMO scheme for the UL HARQ burst signaled through CDMA allocation A-MAP IE is not clear. We recommend to change "vertical encoding" to "MIMO mode 1".

Suggested Remedy

[Change the text in page 598, line 1, subclause 16.3.5.5.2.4.7, as]

The UL HARQ burst signaled ~~by~~ via the CDMA Allocation A-MAP IE is always transmitted using ~~vertical encoding~~ MIMO mode 1 with $M_t=1$ as the MIMO encoder format and QPSK as the modulation scheme.

GroupResolution

Decision of Group: Agree

[Change the text in page 598, line 1, subclause 16.3.5.5.2.4.7, as]

The UL HARQ burst signaled ~~by~~ via the CDMA Allocation A-MAP IE is always transmitted using ~~vertical encoding~~ MIMO mode 1 with $M_t=1$ as the MIMO encoder format and QPSK as the modulation scheme.

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: 2010-08-13

Comment # A10150

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 603 Line 51 Fig/Table# 858 Subclause ?

Remedy-3 was not implemented in comment #176 (C802.16m_0831r2) which was agreed in Session #68.

Suggested Remedy

Change the text in page 603, line 51, table 858, subclause 16.3.5.5.2.4.10, as

1. Size (bit) field: 1 <ins>2</ins>

2. Description/Notes field:

 0b0: Allocation in the first UL subframe relevant to an A-MAP region

0b1: Allocation in the second UL subframe relevant to an A-MAP region

<ins> Indicates the location of UL subframe relevant to this A-MAP.

0b00: the first UL subframe relevant to this A-MAP

0b01: the second UL subframe relevant to this A-MAP

0b10: third UL subframe relevant to this A-MAP

0b11: N.A </ins>

GroupResolution

Decision of Group: Agree

Change the text in page 603, line 51, table 858, subclause 16.3.5.5.2.4.10, as

1. Size (bit) field: 1 <ins>2</ins>

2. Description/Notes field:

 0b0: Allocation in the first UL subframe relevant to an A-MAP region

0b1: Allocation in the second UL subframe relevant to an A-MAP region

<ins> Indicates the location of UL subframe relevant to this A-MAP.

0b00: the first UL subframe relevant to this A-MAP

0b01: the second UL subframe relevant to this A-MAP

0b10: third UL subframe relevant to this A-MAP

0b11: N.A </ins>

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Sangheon Kim

Membership Status: Member

Date: 2010-08-13

Comment # **A10151**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 606 Line 1 Fig/Table# 859 Subclause 16.3.5.5.2.4.

The maximum period of the long period feedback by polling A-MAP IE is 4 superframes (80ms). When 100 or more users are supported, the feedback overhead due to only correlation matrix is higher than 5% of total UL resource. ABS should be able to control the feedback overhead by setting the longer period. Therefore, the modification to the period field is proposed to support the longer period.

Suggested Remedy

Adopt the proposed text in C80216m-10/1077 or its latest version.

GroupResolution

Decision of Group: Principle

Adopt the proposed text in C80216m-10/1077r2

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jaehyuk Jang

Membership Status: Member

Date: 2010-08-12

Comment # **A10152**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 615 Line 51 Fig/Table# Subclause 16.3552412

To reduce MS's decoding complexity, the maximum number of BR ACK A-MAP IE in s subframe shall be 2 which is same number as Broadcast Assignment A-MAP IE.

Suggested Remedy

[Insert the following sentence in pp. 615, line 51:]

BR opportunities are encoded in ascending order based on the number of the uplink subframe in which they are contained in a single or multiple BR-ACK A-MAP IEs.<ins> **The maximum number of BR ACK A-MAP IE in s subframe is 2.**</ins>

GroupResolution

Decision of Group: Principle

[Insert the following sentence in pp. 615, line 51:]

BR opportunities are encoded in ascending order based on the number of the uplink subframe in which they are contained in a single or multiple BR-ACK A-MAP IEs.<ins> **The maximum number of BR ACK A-MAP IEs in a subframe is 2.**</ins>

Reason for Group's Decision/Resolution

Minor editorial fix done to original proposed remedy

Group's Notes

Clause 16.3.5, PHY: Downlink control structure

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hyunkyu Yu

Membership Status: Member

Date: 2010-08-13

Comment # A10153

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 619 Line 1 Fig/Table# Subclause 16.3552413

Time domain repetition cannot be used for all broadcast messages. Some broadcast messages should be transmitted in the predetermined subframe/frame. I suggest to describe clearly which broadcast MAC control message cannot be repeated in time domain.

Suggested Remedy

[Add the following text in page 619, line 1, subclause 16.3.5.5.2.4.13, as]

<ins> AAI_RNG-ACK, AAI_TRF-IND, AAI_PAG-ADV, and PGID_Info messages shall not be transmitted with the time domain repetition. For other broadcast MAC control messages, the time domain repetition may be used. </ins>
The periodicity of the time domain repetition ...

GroupResolution

Decision of Group: Principle

[Add the following text in page 619, line 1, subclause 16.3.5.5.2.4.13, as]

<ins> AAI_TRF-IND, AAI_PAG-ADV, and PGID_Info messages shall not be transmitted with the time domain repetition. For other broadcast MAC control messages, the time domain repetition may be used. </ins>
The periodicity of the time domain repetition ...

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Tsai Chia-Lung

Membership Status:

Date: 2010-08-13

Comment # **A10154**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial

Part of Dis Satisfied

Page 661 Line 54

Fig/Table#

Subclause 16.3.6.2.5.5.2

The i th codewords D_i shall be italic.

Suggested Remedy

Change the i th codewords D_i to be italic

GroupResolution

Decision of Group: Agree

Change the i th codewords D_i to be italic

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.6, PHY: Downlink MIMO

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chia-Lung Tsai

Membership Status:

Date: 2010-08-11

Comment # A10155

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 661 Line 54 Fig/Table# Subclause 16.3.6.2.5.5.2

The i th codewords D_i shall be italic.

Suggested Remedy

Change the i th codewords D_i to be italic

GroupResolution

Decision of Group: Agree

Change the i th codewords D_i to be italic

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.6, PHY: Downlink MIMO

Editor's Notes

Same as A10154

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Tsai Chia-Lung

Membership Status:

Date: 2010-08-13

Comment # **A10156**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial

Part of Dis Satisfied

Page 662 Line 41

Fig/Table#

Subclause 16.3.6.2.5.5.2

The rotation matrix Q_D shall be italic.

Suggested Remedy

Change the rotation matrix Q_D to be italic

GroupResolution

Decision of Group: Agree

Change the rotation matrix Q_D to be italic

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.6, PHY: Downlink MIMO

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chia-Lung Tsai

Membership Status:

Date: 2010-08-11

Comment # A10157

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 662 Line 41 Fig/Table# Subclause 16.3.6.2.5.5.2

The rotation matrix Q_D shall be italic.

Suggested Remedy

Change the rotation matrix Q_D to be italic

GroupResolution

Decision of Group: Agree

Change the rotation matrix Q_D to be italic

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.6, PHY: Downlink MIMO

Editor's Notes

Same as A10156

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Tsai Chia-Lung

Membership Status:

Date: 2010-08-13

Comment # **A10158**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 706 Line 3 Fig/Table# Subclause 16.3.7.5

The full stop following NGPRU shall be deleted.

Suggested Remedy

Delete the full stop following N_{GPRU}

GroupResolution

Decision of Group: Agree

Delete the full stop following N_{GPRU}

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chia-Lung Tsai

Membership Status:

Date: 2010-08-11

Comment # **A10159**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Editorial** Part of Dis Satisfied Page **706** Line **3** Fig/Table# Subclause **16.3.7.5**

The full stop following N_{GPRU} shall be deleted.

Suggested Remedy

Delete the full stop following N_{GPRU}

GroupResolution

Decision of Group: **Agree**

Delete the full stop following N_{GPRU}

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.7, PHY: Uplink physical structure

Editor's Notes

Editor's Actions b) none needed

Same as A10158

Comment by:

Chiwoo Lim

Membership Status:

Nonmember

Date: 2010-08-13Comment # **A10160**Document under Review: **P802.16m/D7**Ballot ID: **sb_16m**Comment Type **Technical** Part of Dis Satisfied Page **722** Line **63** Fig/Table# Subclause **16.3.8.2.4**

In D7, the subband index of RCH (I_{SB}) is calculated by the IDcell and the allocated number of subbands Y_{SB} according to the following equation.

$$I_{SB} = \text{mod}(ID_{\text{cell}}, Y_{SB})$$

Where $Y_{SB} = \sum L_{\text{SB-CRU}, \text{FPI}} / 4$, $i=0,1,2,3$. $L_{\text{SB-CRU}, \text{FPI}}$ is the number of allocated subband CRUs in each frequency partition i .

The problem is current I_{SB} can indicate the non-power boosted reuse 3 frequency partition when UL FFR is applied. We need to clarify this problem.

Suggested Remedy

Adopt the contribution C80216m-10/0975 or its latest version.

GroupResolution**Decision of Group: Principle**

Adopt the contribution C80216m-10/0975r3

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Tsai Chia-Lung

Membership Status:

Date: 2010-08-13

Comment # A10161

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 723

Line 35

Fig/Table#

Subclause 16.3.8.2.4.1

Grammatical error

Suggested Remedy

Change the text on line 35 as

"OSFth UL AAI subframe of the first frame in every ~~4th~~ 4th superframe,"

GroupResolution

Decision of Group: Agree

Change the text on line 35 as

"OSFth UL AAI subframe of the first frame in every ~~4th~~ 4th superframe,"

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chia-Lung Tsai

Membership Status:

Date: 2010-08-11

Comment # A10162

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 723

Line 35

Fig/Table#

Subclause 16.3.8.2.4.1

Grammatical error

Suggested Remedy

Change the text on line 35 as

"OSFth UL AAI subframe of the first frame in every ~~4th~~ 4th superframe,"

GroupResolution

Decision of Group: Agree

Change the text on line 35 as

"OSFth UL AAI subframe of the first frame in every ~~4th~~ 4th superframe,"

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Sangheon Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10163

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 726 Line 44 Fig/Table# Subclause 16.3.8.2.4.2

When NS-RCH format 0 is used, we don't have to allocate the different frequency resource for S-RCH. Because S-RCH is assigned to the different resource, one more subband cannot be used for long TTI allocation.

Suggested Remedy

Modify the equation (286) on line 44 page726

~~$I_{SB,s} = \text{mod}(\text{IDcell}+1, Y_{SB})$ (286)~~

<ins>

$I_{SB,s} = \text{mod}(\text{IDcell}, Y_{SB})$ for NS-RCH format 0
 $\text{mod}(\text{IDcell}+1, Y_{SB})$ for NS-RCH format 1 (286)

</ins>

GroupResolution

Decision of Group: Principle

Resolved by comment #10160.

Resolution:

Adopt the contribution C80216m-10/0975r3

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.8, PHY: Uplink control channel

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jeongho Park

Membership Status: Member

Date: 2010-08-13

Comment # **A10164**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Technical Part of Dis Satisfied Page 732 Line 31 Fig/Table# Subclause 16.3.8.2.5

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.

Suggested Remedy

Adopt the proposed remedies of the contribution IEEE C802.16m-10/1041 or its latest version.

GroupResolution

Decision of Group: **Disagree**

Reason for Group's Decision/Resolution

The proposal offers no justification of gain.

Group's Notes

Clause 16.3.8, PHY: Uplink control channel

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Sangheon Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10165

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 741 Line 13 Fig/Table# Subclause 16.3.8.3.1.2

There is no special reason to map the feedback contents from LSB, unlike other filed. It should be consistent with other fields.

Suggested Remedy

delete "from LSB" in the sentence on line 13, page 741 as following.

The feedback contents in Table 929 are carried from LSB in order of Feedback Fields in Feedback formats.

GroupResolution

Decision of Group: Agree

delete "from LSB" in the sentence on line 13, page 741 as following.

The feedback contents in Table 929 are carried from LSB in order of Feedback Fields in Feedback formats.

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Tsai Chia-Lung

Membership Status:

Date: 2010-08-13

Comment # **A10166**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial

Part of Dis Satisfied

Page 747 Line 25

Fig/Table#

Subclause 16.3.8.3.1.5

The feedback format 2 and 3 have typo in the table 933.

Suggested Remedy

The feedback format 2 and 3 miss the right parentheses in the table 933.

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 933.

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Chia-Lung Tsai

Membership Status:

Date: 2010-08-11

Comment # **A10167**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Editorial** Part of Dis Satisfied Page **747** Line **25** Fig/Table# Subclause **16.3.8.3.1.5**

The feedback format 2 and 3 have typo in the table 933.

Suggested Remedy

The feedback format 2 and 3 miss the right parentheses in the table 933.

2($M=\min\{5, Y_{SB}\}$)

3($M=\min\{10, Y_{SB}\}$)

GroupResolution

Decision of Group: **Agree**

The feedback format 2 and 3 miss the right parentheses in the table 933.

2($M=\min\{5, Y_{SB}\}$)

3($M=\min\{10, Y_{SB}\}$)

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Tsai Chia-Lung

Membership Status:

Date: 2010-08-13

Comment # A10168

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 748

Line 23

Fig/Table#

Subclause 16.3.8.3.1.5

The feedback format 2 and 3 have typo in the table 934.

Suggested Remedy

The feedback format 2 and 3 miss the right parentheses in the table 934.

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 934.

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chia-Lung Tsai

Membership Status:

Date: 2010-08-11

Comment # A10169

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 748 Line 23 Fig/Table# Subclause 16.3.8.3.1.5

The feedback format 2 and 3 have typo in the table 934.

Suggested Remedy

The feedback format 2 and 3 miss the right parentheses in the table 934.

2($M=\min\{5, Y_{SB}\}$)

3($M=\min\{10, Y_{SB}\}$)

GroupResolution

Decision of Group: Agree

The feedback format 2 and 3 miss the right parentheses in the table 934.

2($M=\min\{5, Y_{SB}\}$)

3($M=\min\{10, Y_{SB}\}$)

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jeongho Park

Membership Status: Member

Date: 2010-08-13

Comment # A10170

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 756 Line 12 Fig/Table# Subclause 16.3.8.4.1

AAI_UL_Power_ADJ message includes 'offsetData' and 'offsetControl' to replace the current values of AMS. For the flexibility of BS scheduling, it had better to have 'increment(delta)' on top of 'replacing'.

Suggested Remedy

Adopt the proposed remedies of the contribution IEEE C802.16m-10/1039 or its latest version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The increment (delta) of offsetControl has been already provided by PC-A-MAP IE, we don't need the redundant design.

Group's Notes

Clause 16.3.8, PHY: Uplink control channel

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jeongho Park

Membership Status: Member

Date: 2010-08-13

Comment # A10171

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 759 Line 23 Fig/Table# Subclause 16.3.8.4.4

After initial ranging process with several power ramping, Offset_initial value needs to be reported to ABS. Samsung proposes to mandate to include 'Offset_initial' field in RNG-REQ transmission after AMS's receiving CDMA-allocation A-MAP IE.

Suggested Remedy

Adopt the proposed remedies of the contribution IEEE C802.16m-10/1040 or its latest version.

GroupResolution

Decision of Group: Principle

Adopt the proposed remedies of the contribution IEEE C802.16m-10/1040r1

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jeongho Park

Membership Status: Member

Date: 2010-08-13

Comment # A10172

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 761 Line 55 Fig/Table# Subclause 16.3.8.4.7.2

One of conditions for uplink power status reporting is event driven which is based on 'n_last' and M(n_last). However D7 has no definition of initial value for them.

Suggested Remedy

Adopt the proposed remedies of the contribution IEEE C802.16m-10/1038 or its latest version.

GroupResolution

Decision of Group: Principle

Resolved by comment #131.

Resolution:

Adopt the text proposed in C802.16m-10/1038r2

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.3.8, PHY: Uplink control channel

Editor's Notes

Editor's Actions b) none needed

Comment by:

Chiwo Lim

Membership Status:

Nonmember

Date: 2010-08-13**Comment #** A10173**Document under Review:** P802.16m/D7**Ballot ID:** sb_16m

Comment **Type** Technical **Part of Dis** **Satisfied** **Page** 781 **Line** 55 **Fig/Table#** **Subclause** 16.3.10.1.2

In D7, the $I_{SizeOffset}$ is not indicated by broadcast assignment A-MAP IE and cannot be indicated by CDMA allocation A-MAP IE. However, There is no description for these exceptional cases in channel coding section. It makes some confusions for implementation. So, we need to clarify this.

Suggested Remedy

<Insert the following text in page 781, line 55>

<Ins>In broadcast assignment A-MAP IE, the burst size index is directly signaled as 'Burst Size' instead of being indirectly derived using $I_{SizeOffset}$ and $I_{MinimalSize}$. When the uplink BW for BR header is granted through CDMA allocation A-MAP IE, neither $I_{SizeOffset}$ nor burst size index is signaled, but the value of burst size index is predetermined as 2 (i.e., 8bytes). In both cases, the burst size index and the modulation order are not dependent on the allocation size, where the modulation order N_{mod} is fixed to 2 (i.e., QPSK). </Ins>

GroupResolution**Decision of Group:** Agree

<Insert the following text in page 781, line 55>

<Ins>In broadcast assignment A-MAP IE, the burst size index is directly signaled as 'Burst Size' instead of being indirectly derived using $I_{SizeOffset}$ and $I_{MinimalSize}$. When the uplink BW for BR header is granted through CDMA allocation A-MAP IE, neither $I_{SizeOffset}$ nor burst size index is signaled, but the value of burst size index is predetermined as 2 (i.e., 8bytes). In both cases, the burst size index and the modulation order are not dependent on the allocation size, where the modulation order N_{mod} is fixed to 2 (i.e., QPSK). </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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Eunkyung Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10174

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 792 Line 24 Fig/Table# Subclause 16.3.10.3.1

"multicast STID" should be replaed with "E-MBS ID"

Suggested Remedy

In the line 24, page 792 in P802.16m/D7,
Replace "multicast STID" with "E-MBS ID"

GroupResolution

Decision of Group: Agree

In the line 24, page 792 in P802.16m/D7,
Replace "multicast STID" with "E-MBS ID"

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Sangheon Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10175

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 793 Line 29 Fig/Table# 961 Subclause 16.3.10.3.3

The uplink pilot power for distributed LRU should be modified to improve the performance for the cell-edge users by enhancing channel estimation.

Suggested Remedy

Adopt the proposed text in C80216m-10/1078 or its latest version.

GroupResolution

Decision of Group: Agree

Adopt the proposed text in C80216m-10/1078

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Anshuman Nigam

Membership Status: Member

Date: ?

Comment # A10176

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 809 Line 62 Fig/Table# Subclause 16.4.7.1

During Network (Re) Entry, the AMS needs to prioritize the base stations that it has found by scanning, for attempting cell (re)selection. Standard can give some recommendations for this

Suggested Remedy

Adopt the proposed text in the latest version of the contribution number C80216m-10_1012

GroupResolution

Decision of Group: Principle

Modify the text in 16.4.7.1 on page 809 line 62 onwards as follow:

During network entry, the AMS shall acquire the DL PHY synchronization by A-Preamble. The AMS identifies the type of ABS based on the detected Cell_ID and the Cell_ID partitioning information. The AMS may select the ABS depending on the preference on the ABS types of the AMS. ~~Cell Type, Cell ID, Received Signal Level, Nearness to a cell, Service Continuity/Services Offered, Capability of the neighbor cell like MIMO configuration, MC configuration etc.~~ Cell Type, Cell ID, Received Signal Level, Nearness to a cell, Service Continuity/Services Offered, Capability of the neighbor cell like MIMO configuration, MC configuration etc.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Ying Li

Membership Status: Member

Date: 2010-08-12

Comment # A10177

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 810 Line 1 Fig/Table# Subclause 16.4.13

16.4.7.5 FemtoABS reselection by AMS

It has several problems in it.

Problem 1: "If the received CSGID(s) from the AMS does not match any of the CSGID(s) of the Femto ABS itself, then the Femto ABS shall determine that the AMS is not a member of the Femto ABS and therefore cannot be granted access."

The above logic will hold only if: the received CSGID(s) are ALL the CSGIDs and the BSIDs that the AMS has subscribed.

If the AMS only sends part of the CSGIDs or BSIDs that the AMS subscribes, the above logic does NOT hold.

Problem 2: "In case the AMS does not support CSG whitelist capability or does not have any CSGID(s) provisioned in its CSG whitelist, the "Redirection Info" may be provided in the AAI_REG-RSP message."

If the AMS does not have any CSGID(s) provisioned in its CSG whitelist, why at the first place the AMS would perform ranging to CSG Femto BS? Since this scenario implies that the AMS does not subscribe any CSG, hence the AMS should not try to range to the CSG Femto BS, so there is no need for "Redirection Info".

Our proposal is to fix the problems.

Suggested Remedy

Please adopt the text in contribution C80216m-10_1045 or its latest version.

GroupResolution

Decision of Group: Agree

Adopt the proposed resolution in the contribution C80216m-10_1045r2

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Anshuman Nigam

Membership Status: Member

Date: ?

Comment # A10178

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 811 Line 21 Fig/Table# Subclause 16.4.8.1.1

The functionality of AAI_SCN-REP and AAI_NBR-REQ is duplicated. One of the messages is enough to support the desired functionality. Hence it is proposed to remove AAI_NBR-REQ and modify AAI_SCN-REP to incorporate the additional functionality that AAI_NBR-REQ was providing.

Suggested Remedy

Please adopt the proposed modifications in the latest version of the contribution C80216m-10_1011

GroupResolution

Decision of Group: Agree

Please adopt the proposed modifications in the contribution C80216m-10_1011r3

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions a) done

Comment by: Ying Li

Membership Status: Member

Date: 2010-08-12

Comment # A10179

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 811 Line 41 Fig/Table# Subclause 16.4.8.1

D7 says: "The AMS may request additional scanning opportunity by sending AAI-SCN-REQ including the detected SA-preamble index and FA information. Upon reception of the AAI_SCN-REQ, the ABS shall respond with an AAI_SCN-RSP which may include neighbor accessible Femto ABS list based on the SA-preamble index."

The AAI_SCN-REQ can have SA-preamble and FA information, in many situations, even when the AMS is scanning for the BS in NBR-ADV list, it may include SA-preamble and FA in SCN-REQ, or it can also be that when the AMS is scanning for the BS not in NBR-ADV list but the AMS is not expecting any NBR refinement from the BS e.g., when the AMS has already known the BSID of the BS not in NBR list. If the ABS responds with a list of accessible Femto BS, whenever the SA-preamble and FA are included in SCN-REQ, this does not make sense.

Hence, there should be some indication from the AMS, to the ABS, to indicate whether the AMS is requesting a unicasted Femto ABS list.

Suggested Remedy

Please adopt the text in contribution C80216m-10_1043r1 or its latest version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The proposed text is not needed.

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Jin Lee

Membership Status: Member

Date: ?

Comment # A10180

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 811 Line 49 Fig/Table# Subclause 16.4.8.1.2

'a certain condition' in Page 811 Line 49 is not defined anywhere in spec. Define the condition otherwise delete it.

Suggested Remedy

Adopt the following changes from page 811 line 49 :

to monitor UL signaling of its member AMS which is served by the Macro ABS when a certain condition is met .

GroupResolution

Decision of Group: Agree

Modify Line 49 Page 811 in section 16.4.8.1.2 as follows:

to monitor UL signaling of its member AMS which is served by the Macro ABS when a certain condition is met .

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Ying Li

Membership Status: Member

Date: 2010-08-12

Comment # A10181

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 812 Line 12 Fig/Table# Subclause 16.4.8.1.2

Problem: In the current draft D7, it has text saying

The AAI_SCN-REP may contain the neighbor request indication, to which the ABS may unicast an AAI_NBR-ADV that includes a list of femto ABSs which is formed based on the reported FA, A-preamble index or BSIDs, or the reported measurement

To send the AMS the unicasted list of NBR accessible FBS is a valid idea. However, there could be problems to use unicasted AAI_NBR-ADV. For example,

- a) In SCN-REQ/SCN-RSP, there is some field indicating whether it is for the ABS in AAI_NBR-ADV, or not.
- b) In some other messages, there is some field related to 'the index of the ABS listed in AAI_NBR-ADV'
- c) Suppose an AMS/ABS receives/sends a broadcasted AAI_NBR-ADV, AND a unicasted AAI_NBR-ADV only with femtos in the list, which AAI_NBR-ADV shall the AMS/ABS interpret when the AMS/ABS reads "AAI_NBR-ADV" such as in case a) and b), the broadcasted one, or the unicasted one??

Remedy:

Option 1: Make a separate new message, to unicast information of accessible NBR Femto ABSs. This option would be adding a lot of work to generate a new message.

Option 2: Make the scanning response to unicast the information of accessible NBR Femto ABSs. In this proposal, we choose Option 2.

Suggested Remedy

Please adopt the text in contribution C80216m-10_1052 or its latest version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

This is an implementation issue.

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Ying Li

Membership Status: Member

Date: 2010-08-12

Comment # A10182

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 812 Line 21 Fig/Table# Subclause 16.4.8.1.2

Problem: In the current draft D7, 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-closed 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.

Remedy:

Add one bit of the indicator of whether the detected femtocell is in the AMS's local whitelist, in AAI_SCN-REP.

Suggested Remedy

Please adopt the text in contribution C80216m-10_1070 or its latest version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The ABS can know whether the CSGID is in the whitelist without an indication from the AMS.

Vote:

In favor: 9

Opposed: 7

Abstain:

Group's Notes

Clause 16.4, Other: Femto

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Alexey Davydov

Membership Status: Member

Date: ?

Comment # A10183

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 821 Line 37 Fig/Table# Subclause 16.5.1.3.1

There is no phase definition and it's usage in PMI concatenation procedure is ambiguous. It may lead to different interpretation of phase at the ABS and AMS and as a result to different multi-BS precoding matrices.

Suggested Remedy

Provide the definition of phase with equation explaining it's usage in PMI concatenation scheme

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

No proposed remedy.

Group's Notes

Clause 16.5, Other: Multi-BS MIMO

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Ping-Heng Kuo

Membership Status: Member

Date: 2010-08-12

Comment # A10184

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 824 Line 31 Fig/Table# Subclause 16.5.2.1.2

There are some notation errors in the text of subclause 16.5.2.1.2

Suggested Remedy

Adopt the proposed text in C802.16m-10/0962 or its latest version

GroupResolution

Decision of Group: Agree

Adopt the proposed text in C802.16m-10/0962

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.5, Other: Multi-BS MIMO

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jinyoung Chun

Membership Status: Member

Date: 2010-08-13

Comment # A10185

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 845 Line 7 Fig/Table# Subclause 16.6.3.2.1

In the last meeting, most of relay issues are solved. But in FDD, the HARQ operation is different with ABS and ARS. It's very critical problem to the operation of ABS and ARS.

Suggested Remedy

Adopt the proposed remedy in C80216m-10/1002 or the revised version.

GroupResolution

Decision of Group: Principle

Adopt the proposed remedy in C80216m-10/1002r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jinyoung Chun

Membership Status: Member

Date: 2010-08-13

Comment # A10186

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 846 Line 61 Fig/Table# Subclause 16.6.3.2.1

In the last meeting, most of relay issues are solved. But still the indication method of DL R-TTI and UL Tadv is not defined.

Suggested Remedy

Adopt the proposed remedy in C80216m-10/1001 or the revised version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

R_IdleTime can be defined in SCD message. Tadv can be calculated from R_IdleTime.

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Tsai Chia-Lung

Membership Status:

Date: 2010-08-13

Comment # **A10187**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type **Technical** Part of Dis Satisfied Page **847** Line **1** Fig/Table# Subclause **16.6.3.2**

Some errors and typos in Section 16.6.3.2 have been identified. In this contribution

Suggested Remedy

Adopt the proposed text in C802.16m-10/0959 or its latest revision

GroupResolution

Decision of Group: **Principle**

Resolved by comment #10185.

Resolution:

Adopt the proposed remedy in C80216m-10/1002r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jinyoung Chun

Membership Status: Member

Date: 2010-08-13

Comment # A10188

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 850 Line 60 Fig/Table# Subclause 16.6.3.3.1
Type error.

Suggested Remedy

The indication of MIMO midamble transmission in inthe AAI DL Relay zone shall be sent to AMS by SFH SP2 and to ARS by AAI_ARS-CONFIG-CMD.

GroupResolution

Decision of Group: Agree

The indication of MIMO midamble transmission in inthe AAI DL Relay zone shall be sent to AMS by SFH SP2 and to ARS by AAI_ARS-CONFIG-CMD.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Tsai Chia-Lung

Membership Status:

Date: 2010-08-13

Comment # **A10189**

Document under Review: **P802.16m/D7**

Ballot ID: **sb_16m**

Comment Type Editorial Part of Dis Satisfied Page 851 Line 5 Fig/Table# Subclause 16.6.3.3.1

The full stop following the type-2 AAI subframe is missing

Suggested Remedy

type-1 or type-2 AAI subframe_

GroupResolution

Decision of Group: Agree

type-1 or type-2 AAI subframe_

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chia-Lung Tsai

Membership Status:

Date: 2010-08-11

Comment # A10190

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 851 Line 5 Fig/Table# Subclause 16.6.3.3.1

The full stop following the type-2 AAI subframe is missing

Suggested Remedy

type-1 or type-2 AAI subframe.

GroupResolution

Decision of Group: Agree

type-1 or type-2 AAI subframe.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Tsai Chia-Lung

Membership Status:

Date: 2010-08-13

Comment # A10191

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 851 Line 20

Fig/Table#

Subclause 16.6.3.3.1

The subclause number 15.3.5.3. is incorrect.

Suggested Remedy

The subclause number shall be changed to 16.3.4.3.

GroupResolution

Decision of Group: Agree

The subclause number shall be changed to 16.3.4.3.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.6, Other: Relay

Editor's Notes

Editor's Actions a) done

16.3 cross reference needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chia-Lung Tsai

Membership Status:

Date: 2010-08-11

Comment # A10192

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 851 Line 20 Fig/Table# Subclause 16.6.3.3.1

The subclause number 15.3.5.3. is incorrect.

Suggested Remedy

The subclause number shall be changed to 16.3.4.3.

GroupResolution

Decision of Group: Agree

The subclause number shall be changed to 16.3.4.3.

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 TsaiMembership Status:Date: 2010-08-11Comment # **A10193**Document under Review: **P802.16m/D7**Ballot ID: **sb_16m**Comment Type **Editorial** Part of Dis Satisfied Page **851** Line **20** 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 0, which indicates that ABS does not allocate AMS transmissions in the AAI Relay zone, then the values of ~~DCASSB,0,DCASi,DCASMB,0~~ $DCAS_{SB,0}$, $DCAS_i$, $DCAS_{MB,0}$ used for cell-specific resource mapping in AAI DL Relay zones of ABS and ARS frames shall be set to the values ~~R_DCASSB,0, R_DCASi, R_DCASMB,0~~ $R_DCAS_{SB,0}$, R_DCAS_i , $R_DCAS_{MB,0}$ correspondingly. The values of cell specific AAI Relay zone parameters $R_DCASSB,0$, R_DCAS_i , $R_DCASMB,0$ $R_DCASSB,0$, R_DCAS_i , $R_DCASMB,0$ are explicitly signaled in the AAI_ARS-CONFIG-CMD message.

GroupResolutionDecision 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 0, which indicates that ABS does not allocate AMS transmissions in the AAI Relay zone, then the values of ~~DCASSB,0,DCASi,DCASMB,0~~ $DCAS_{SB,0}$, $DCAS_i$, $DCAS_{MB,0}$ used for cell-specific resource mapping in AAI DL Relay zones of ABS and ARS frames shall be set to the values ~~R_DCASSB,0, R_DCASi, R_DCASMB,0~~ $R_DCAS_{SB,0}$, R_DCAS_i , $R_DCAS_{MB,0}$ correspondingly. The values of cell specific AAI Relay zone parameters $R_DCASSB,0$, R_DCAS_i , $R_DCASMB,0$ $R_DCASSB,0$, R_DCAS_i , $R_DCASMB,0$ are explicitly signaled in the AAI_ARS-CONFIG-CMD message.

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

Clause 16.6, Other: Relay

Editor's NotesEditor's Actions a) done

Comment by:

Tsai Chia-Lung

Membership Status:Date: 2010-08-13Comment # A10194Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type EditorialPart of Dis Satisfied Page 851 Line 26Fig/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 0, which indicates that ABS does not allocate AMS transmissions in the AAI Relay zone, then the values of ~~DCA_{SSB,0}, DCA_{SI}, DCA_{SMB,0}~~ DCAS_{SB,0}, DCAS_i, DCAS_{MB,0} used for cell-specific resource mapping in AAI DL Relay zones of ABS and ARS frames shall be set to the values ~~R_DCA_{SSB,0}, R_DCA_{SI}, R_DCA_{SMB,0}~~ R_DCAS_{SB,0}, R_DCAS_i, R_DCAS_{MB,0} correspondingly. The values of cell specific AAI Relay zone parameters ~~R_DCA_{SSB,0}, R_DCA_{SI}, R_DCA_{SMB,0}~~ R_DCAS_{SB,0}, R_DCAS_i, R_DCAS_{MB,0} are explicitly signaled in the AAI_ARS-CONFIG-CMD message.

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 0, which indicates that ABS does not allocate AMS transmissions in the AAI Relay zone, then the values of ~~DCA_{SSB,0}, DCA_{SI}, DCA_{SMB,0}~~ DCAS_{SB,0}, DCAS_i, DCAS_{MB,0} used for cell-specific resource mapping in AAI DL Relay zones of ABS and ARS frames shall be set to the values ~~R_DCA_{SSB,0}, R_DCA_{SI}, R_DCA_{SMB,0}~~ R_DCAS_{SB,0}, R_DCAS_i, R_DCAS_{MB,0} correspondingly. The values of cell specific AAI Relay zone parameters ~~R_DCA_{SSB,0}, R_DCA_{SI}, R_DCA_{SMB,0}~~ R_DCAS_{SB,0}, R_DCAS_i, R_DCAS_{MB,0} are explicitly signaled in the AAI_ARS-CONFIG-CMD message.

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

Clause 16.6, Other: Relay

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

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Ying Li

Membership Status: Member

Date: 2010-08-12

Comment # A10195

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 855 Line 49 Fig/Table# Subclause 16.7.4

In the current draft D7, the reconfiguration section needs more clarification.
Our proposal is to clean up the text.

Suggested Remedy

Please adopt the text in contribution C80216m-10_0972 or its latest version.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

This is an implementation issue and the proposal does not set any requirements

Vote:

In favor: 6

Opposed: 9

Abstain:

Group's Notes

Clause 16.7, Other: SON

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Lei Zhou

Membership Status: Member

Date: 2010-08-12

Comment # A10196

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 862 Line 1 Fig/Table# 607 Subclause 16.8.2.4.2

Comment #100321 and related contribution C802.16m-10_0799r2 have been accepted in IEEE 802.16 #68 meeting. But unfortunately operation description figures in contribution C802.16m-10_0799r2 can't be correctly implemented in IEEE 802.16m/D7. Some editorial errors exists in Figure 607&608 of IEEE 802.16m/D7. We propose to modify these editorial errors in Figure 607&608.

Suggested Remedy

Adopt the proposed AWD text changes in contribution C802.16m-10_0990 or its latest revision.

GroupResolution

Decision of Group: Principle

In Figure 607 step 10, it says "degree μ ". Replace that with Δ t
In Figure 608 step 7, it says "degree μ ". Replace that with Δ t

editor: use the proper upper case delta symbol here

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.8, Other: LBS

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Chia-Lung Tsai

Membership Status:

Date: 2010-08-11

Comment # A10197

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 826 Line 1 Fig/Table# Subclause 16.6.3.2

There are some concerns and typos in the section 16.6.3.2.

Suggested Remedy

Adopt the proposed text in C802.16m-10/0959 or its latest revision

GroupResolution

Decision of Group: Principle

Resolved by comment #10185.

Resolution:

Adopt the proposed remedy in C80216m-10/1002r1

Reason for Group's Decision/Resolution

Group's Notes

MC ad hoc to take this

Editor's Notes

Editor's Actions b) none needed

Comment by:

Kaushik Josiam

Membership Status: MemberDate: 2010-08-12Comment # A10198Document under Review: P802.16m/D7Ballot ID: sb_16mComment Type Technical Part of Dis Satisfied Page 868 Line 26 Fig/Table# Subclause 16.9.1.2

For E-MBS macrodiversity mode, transmission PHY parameters have to be synchronized across all ABSs in the E-MBS zone. The transmission PHY parameters include MCS associated with each E-MBS Burst including FEC Type, Modulation Type. There is no mention of repetition coding in the channel coding and HARQ section. Suggest removing the word repetition coding

Suggested Remedy

Make the following changes to the sentence beginning on Line 26:

Transmission PHY parameters, MCS associated with each E-MBS Burst including FEC Type, Modulation Type, ~~and Repetition Coding~~

GroupResolutionDecision of Group: Agree

Make the following changes to the sentence beginning on Line 26:

Transmission PHY parameters, MCS associated with each E-MBS Burst including FEC Type, Modulation Type, ~~and Repetition Coding~~

Reason for Group's Decision/ResolutionGroup's Notes

Clause 16.9, Other: eMBS

Editor's NotesEditor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Eunkyung Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10199

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 869 Line 5 Fig/Table# Subclause 16.9.2.1

E-MBS Service Establishment should provide varialbe scenario based on the charging system as well as service start as follows.

- Starting receiving E-MBS immediatly after DSx procedure
- Starting receiving E-MBS when the user wants

Suggested Remedy

Please adopt the text proposal in IEEE C802.16m-10/0979 or its lastest revision.

GroupResolution

Decision of Group: Principle

Adopt the text proposal in IEEE C802.16m-10/0979r2

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.9, Other: eMBS

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Eunkyung Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10200

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 870 Line 33 Fig/Table# Subclause 16.9.2.4

E-MBS operation in multicarrier deployment should be provided clearly in order to achieve an efficient carrier switching operation. Proposed E-MBS operation minimizing frequent message overhead such as reporting or allocating available interval using "Minimal interval of unicast transmission in the primary"
, where if the unicast interval is larger than minimal interval, AMS returns to the primary carrier. otherwise, AMS stays in the E-MBS carrier.

Suggested Remedy

Please adopt the text proposal in IEEE C802.16m-10/0980 or its latest revision.

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

An alternate solution was accepted in C802.16m-10/1035r1

Group's Notes

Clause 16.9, Other: eMBS

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Kaushik Josiam

Membership Status: Member

Date: 2010-08-12

Comment # A10201

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 870 Line 35 Fig/Table# Subclause 16.9.2.4

The current spec is silent on the mechanism for carrier switching to and from the E-MBS secondary carrier. The details on carrier switching operation have been in discussion for sometime.

Suggested Remedy

Adopt the proposed text in the latest revision of C802.16m-10/1035

GroupResolution

Decision of Group: Principle

Resolved by comment #54.

Resolution:

Adopt the text proposed in C802.16m-10/1035r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.9, Other: eMBS

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Eunkyung Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10202

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 870 Line 64 Fig/Table# Subclause 16.9.3.1

AAI_E-MBS-CFG shall be advertised in the every 16 superframe before the beginning of MSI.
In a cell, only one MSI exists and it may be less than 16 (i.e., 2, 4, 8, and 16).
Therefore, the largest MSI in a cell may be ambiguous.

Suggested Remedy

[Modify the line 64-65, pp 870, P802.16m/D7 as follows.]

AAI_E-MBS-CFG shall be advertised in the superframe before the beginning of the largest MSI (16superframes)

<ins>

AAI_E-MBS-CFG message shall be advertised at the superframe when its superframe number ($N_{\text{superframe}}$) from SFH meets the following condition.

$$N_{\text{superframe}} \text{ modulo } 16 == 15$$

</ins>

GroupResolution

Decision of Group: Principle

Resolved by comment #146.

Resolution:

Adopt contribution IEEE C802.16m-10_1030r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.9, Other: eMBS

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Eunkyung Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10203

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 871 Line 3 Fig/Table# Subclause 16.9.3.1

Whenever any parameter related to E-MBS in AAI_SCD changes, some parameters (e.g., E-MBS MAP Resource Index) in AAI_E-MBS-CFG also may change. The interval between the time applying the configuration from AAI_SCD and upcoming AAI_E-MBS-CFG to update makes complicated operation for AMSs due to deciding one of either previous AAI_SCD or new AAI_SCD during the interval.

Therefore, applying the configuration from AAI_SCD to AAI_E-MBS_CFG should be defined clearly.

In this contribution, we propose AAI_SCD configuration change count in AAI_E-MBS-CFG message to resolve the ambiguity which AAI_SCD and when the changed configuration of AAI_SCD.

Suggested Remedy

Please adopt the text proposal in IEEE C802.16m-10/0981 or its latest revision.

GroupResolution

Decision of Group: Principle

Resolved by comment #146.

Resolution:

Adopt contribution IEEE C802.16m-10_1030r1

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.9, Other: eMBS

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Eunkyung Kim

Membership Status: Member

Date: 2010-08-13

Comment # A10204

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 874 Line 21 Fig/Table# Subclause 16.9.3.3

N_{MSI} is defined in "AAI_SCD message" not "AAI_E-MBS-CFG message"

Suggested Remedy

In the line 21, page 874 in P802.16m/D7,
Replace "AAI_E-MBS-CFG" with "AAI_SCD"

GroupResolution

Decision of Group: Agree

In the line 21, page 874 in P802.16m/D7,
Replace "AAI_E-MBS-CFG" with "AAI_SCD"

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.9, Other: eMBS

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Jaehyuk Jang

Membership Status: Member

Date: 2010-08-12

Comment # A10205

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 883 Line 19 Fig/Table# Tabl Subclause 16.11

BR_ACK_Offset is used to describe bandwidth request procedure, but its default value is not defined in D7.

Suggested Remedy

[Update "Default Value" of "BR ACK offset" field in Table 983, pp. 883, line 19, to '2 frames'.]

GroupResolution

Decision of Group: Agree

Make the "Default Value" of "BR ACK offset" field in Table 983, pp. 883, line 19, <ins>2 frames</ins>.

Reason for Group's Decision/Resolution

Group's Notes

Clause 16.11, Other: Global Values

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: YoungKyo Baek

Membership Status: Member

Date: 2010-08-12

Comment # A10206

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 931 Line 1 Fig/Table# Subclause Annex Q

Test vectors for cryptographic methods presents in Annex Q.
To prevent misunderstanding we suggest fixing test vectors and some typos.

Suggested Remedy

Adopt the proposed text in contribution C802.16m-10/1016 or its later version.

GroupResolution

Decision of Group: Agree

Adopt the proposed text in contribution C802.16m-10/1016

Reason for Group's Decision/Resolution

Group's Notes

Annex Q, General: Annex

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Hassan Yaghoobi

Membership Status: Nonmember

Date: ?

Comment # A10207

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 935 Line 1 Fig/Table# Subclause Annex R

The radio Specifications of 802.16m as specified in Annexes R and S need to be updated for completeness.

Suggested Remedy

Adopt the proposed text in contribution C802.16m-10/1071 or its latest revision.

GroupResolution

Decision of Group: Principle

Resolved by comment #A0256.

Resolution:

Adopt the proposed text in contribution C802.16m-10/1044

Reason for Group's Decision/Resolution

Group's Notes

Annex R, General: Annex

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Peretz Feder

Membership Status: Member

Date: 2010-08-13

Comment # A10208L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 4 Line Fig/Table# Subclause 3

Omissions - draft 7 delta changes not shown in draft 7.
Section 3, pages 4, 5, 6,7

Suggested Remedy

add the modifications that are captured in the D7 delta files. The accepted changes in the D7delta spec are not present in the D7 file

GroupResolution

Decision of Group: Agree

add the modifications that are captured in the D7 delta files. The accepted changes in the D7delta spec are not present in the D7 file

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions g) editor disagrees

Confirmed that D7 delta (an unofficial document) changes are present in Draft 7.

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Peretz Feder

Membership Status: Member

Date: 2010-08-13

Comment # A10209L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 4 Line Fig/Table# Subclause 3

Add a definition of a single radio

The term "single radio" is mentioned in multiple places but not defined.

Suggested Remedy

3.xxx Single Radio: A multimode MS/AMS that operates with only a single transmitting radio and with one or more receiving radios at any given time.

GroupResolution

Decision of Group: Principle

3.xxx Single Radio: A multimode MS/AMS that operates with only a single transmitting radio and with one or more receiving radios at any given time.

Throughout the document, ensure that any references to "single radio" do not contain a hyphen between "single" and "radio".

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions a) done

Comment by: Peretz Feder

Membership Status: Member

Date: 2010-08-13

Comment # A10210L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 4 Line Fig/Table# Subclause 3

The term "dual radio" is mentioned in multiple places but not defined.
Add a definition of a dual radio

Suggested Remedy

Dual Radio MS: A multimode MS/AMS that can have both radios (transmitting and receiving) active at the same time. A Dual Radio MS/AMS can simultaneous transmit and receive on both radios (for e.g. WiMAX and 3GPP). A Dual Radio MS/AMS may behave as a SR MS by operating in Single Radio Mode

GroupResolution

Decision of Group: Principle

Add the following definitions to Clause 3:

Dual Radio MS: A multimode MS/AMS that can have both radios (transmitting and receiving) active at the same time. A Dual Radio MS/AMS can simultaneous transmit and receive on both radios (for e.g. WiMAX and 3GPP). A Dual Radio MS/AMS may behave as a Single Radio MS by operating in Single Radio Mode

Multi Radio MS: A multimode MS/AMS that can have multiple radios (transmitting and receiving) active at the same time. A Multi Radio MS/AMS can simultaneous transmit and receive on multiple radios (for e.g. WiMAX and 3GPP). A Multi Radio MS/AMS may behave as a Single Radio MS by operating in Single Radio Mode

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Peretz Feder

Membership Status: Member

Date: 2010-08-13

Comment # A10211L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 16 Line Fig/Table# 5.2.6 Subclause ?

Entries 1,4,6..256 omitted

Suggested Remedy

Add three more entries to table 2a: 2 - IP with RoHC, 3-IP with PHS, 5-Ethernet with PHS

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

This information is already embedded in the service flow encodings.

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Peretz Feder

Membership Status: Member

Date: 2010-08-13

Comment # A10212L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 37 Line Fig/Table# 578 Subclause ?

make the CS implementations consistent. No need to generate two sets of values for the same classification action

Suggested Remedy

Match with section 11.13.18.1. This means: values 4,7,8 should be reserved and value 5 is Packet, IPv4 over IEEE 802.3/Ethernet, value 6 is Packet, IPv6 over 802.3/Ethernet, and value 9 is ATM

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

Table 11.13.18.1 was removed, and the two tables 11.13.18.1 and 11.7.7.1 match.

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Peretz Feder

Membership Status: Member

Date: 2010-08-13

Comment # A10213L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 43 Line 56 Fig/Table# Subclause ?

need to assure the CRID is per specific MS

Suggested Remedy

Change from:

The network shall assign a 72 bit CRID to each AMS during network entry.

to:

The network shall assign a **unique** 72 bit CRID to each AMS during network entry.

GroupResolution

Decision of Group: Agree

Change from:

The network shall assign a 72 bit CRID to each AMS during network entry.

to:

The network shall assign a **<ins>unique</ins>** 72 bit CRID to each AMS during network entry.

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10214L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 63 Line 20 Fig/Table# Subclause 16.2.2.2.7

MLEH has been removed in the San Diego meeting.

Suggested Remedy

Adopt the following changes

1. Delete section 16.2.2.2.7

GroupResolution

Decision of Group: Principle

Delete as indicated on Page 56, Line 52:

0b0110 MAC PDU length extended header See 16.2.2.2.7

Reason for Group's Decision/Resolution

Other material was removed by A10015

Group's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10215L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 70 Line 64 Fig/Table# 679 Subclause 16.2.3

Inconsistent functional areas name for MIMO

Suggested Remedy

- Item 55, change MultiBS-MIMO to MIMO
- Item 56, change FFR/MultiBS-MIMO to MIMO
- Item 57, change MultiBS-MIMO to MIMO
- Item 58, change MultiBS-MIMO to MIMO
- Item 59, change MultiBS-MIMO to MIMO

GroupResolution

Decision of Group: Agree

- Item 55, change MultiBS-MIMO to MIMO
- Item 56, change FFR/MultiBS-MIMO to MIMO
- Item 57, change MultiBS-MIMO to MIMO
- Item 58, change MultiBS-MIMO to MIMO
- Item 59, change MultiBS-MIMO to MIMO

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10216L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 71 Line 33 Fig/Table# 679 Subclause 16.2.3

Inconsistent functional areas name for MIMO

Suggested Remedy

Item 64, add MISC to functional areas column

Item 65, add MISC to functional areas column

Item 66, add MISC to functional areas column

GroupResolution

Decision of Group: Agree

Item 64, add MISC to functional areas column

Item 65, add MISC to functional areas column

Item 66, add MISC to functional areas column

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions a) done

Comment by:

Joey Chou

Membership Status: MemberDate: 2010-08-12Comment # A10217LDocument under Review: P802.16m/D7Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 71 Line 33 Fig/Table# 679 Subclause 16.2.3

There are multiple LBS messages. So, there should be a separate functional area for LBS

Suggested Remedy

1. Create a new functional area called "LBS"
2. Move item 4 AAI-LBS-ADV to LBS functional area
3. Add a new row to LBS

No.	Functional Areas	Message names	Message description	Security	Connection
xx	LBS	AAI-LBS-ADV	Initiate LBS measurement	N.A.	Unicast

GroupResolutionDecision of Group: Principle

1. Move item 4 AAI-LBS-ADV to a new row added to the end of the table
2. Add two new rows to the table, with the following content (re-number all of the rows in the table as appropriate)

No.	Functional Areas	Message names	Message description	Security	Connection
xx	LBS	AAI-LBS-ADV	Initiate LBS measurement	N.A.	Broadcast
xx	LBS	AAI-LBS-IND	LBS indication	N.A.	Unicast

Reason for Group's Decision/ResolutionGroup's NotesEditor's NotesEditor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10218L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 80 Line 24 Fig/Table# 681 Subclause 16.2.3.2

C) Updated QoS Info has variable size, and does not have enough information to proceed ASN.1 coding

Suggested Remedy

Clarify the size and note of C) Updated QoS Info

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

No text provided.

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10219L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 97 Line 56 Fig/Table# 686 Subclause 16.2.3.7

O.1) Minimal HO Reentry Interleaving Interval is the interleaving interval in frames. But, the size is only 1 bit. For The note "MC HO capable AMS, this value shall be 0. Shall be included only if EBB support is set to 1" seems talk about different thing.

Suggested Remedy

Clarify teh size and note Minimal HO Reentry Interleaving Interval parameter

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

No specific text provided.

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10220L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 99 Line 63 Fig/Table# 686 Subclause 16.2.3.7

B) Requested-Host-Configurations IE does not have size and value / note

Suggested Remedy

Add size and value / note definitions

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

No text provided.

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10221L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 103 Line 42 Fig/Table# 687 Subclause 16.2.3.8

C) Additional-Host-Configurations IE does not have size and value / note

Suggested Remedy

Add size and value / note definitions

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

No text provided.

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10222L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 104 Line 23 Fig/Table# 687 Subclause 16.2.3.8

It is not clear what CS type is in "CS type for default service flow" parameter.

Suggested Remedy

Needs to define CS type in CS type for default service flow

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

No text provided.

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10223L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 107 Line 15 Fig/Table# 690 Subclause 16.2.3.10

The condition of AAI_NBR-ADV Change count
Shall be included when N_New_ABS_Index > 0

But, N_New_ABS_Index can't be found

Suggested Remedy

Fix it or remove it

GroupResolution

Decision of Group: Principle

Resolved by comment #255.

Resolution:

Adopt text proposal in contribution C802.16m-10/1060r5

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10224L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 116 Line 16 Fig/Table# 692 Subclause 16.2.3.12

Parameters F) SFH Subpkt 1, G) SFH Subpkt 2, and H) SFH Subpkt 3 have no size and note

Suggested Remedy

Clarify the size and note of Parameters F) SFH Subpkt 1, G) SFH Subpkt 2, and H) SFH Subpkt 3

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

No text proposed.

Group's Notes

Editor's Notes

Editor's Actions b) none needed

Comment by: Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10225L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 154 Line 18 Fig/Table# Subclause 16.2.3.26

Parameter SLPID_Update is shown in the text, but not in the MAC message table 710

Suggested Remedy

Add SLPID_Update to the table or remove it from the text

GroupResolution

Decision of Group: Principle

Resolved by comment #100.

Resolution:

[Modifiy the table 710 on page 153, line 37, as follows;]

Table 710—Parameters for AAI_TRF-IND

..
M	SLPID	10	Each SLPID is used to indicate the positive traffic indication for an AMS	0~1023	When FRMT ==1
<u>0</u>	<u>SLPID_Update</u>	<u>20*N</u>	<u>For each 20 bits, the first 10 bits indicates old SLPID and the second 10 bits indicates new SLPID</u>	<u>N = the number of SLPIDs to be updated (1..1024)</u>	<u>When FRMT ==1</u>

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10226L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 168 Line 16 Fig/Table# Subclause 16.2.3.36

16.2.3.36 AAI_NBR-REQ should be together with other NBR messages

Suggested Remedy

Move section 16.2.3.36 AAI_NBR-REQ after section 16.2.3.12 AAI_NBR-ADV

GroupResolution

Decision of Group: Agree

Move section 16.2.3.36 AAI_NBR-REQ after section 16.2.3.12 AAI_NBR-ADV

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10227L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 199 Line 7 Fig/Table# 740 Subclause 16.2.3.46.1

A) Common for Group Create/Change has variable size. Its not is also not clear

B) Qty SFID request has size M. But, there is no definition about M

Suggested Remedy

Clarify its size and note

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

No text provided.

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10228L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 209 Line 41 Fig/Table# 743 Subclause 16.2.3.46.4

The definition of Group Parameter Create/Change parameter structure is not complete, and can't be converted into ASN.1.

For example

1. A) Common for Group Create/Change has variable size, and the note has no information how this attribute is defined
2. B) Qty SFID request has size M. But there is no description what M is

Suggested Remedy

Fix the definition or delete CS encodingRule

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

The proposed remedy has nothing to do with the comment.

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10229L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 210 Line 9 Fig/Table# 743 Subclause 16.2.3.46.4

A) Common for Group Create/Change has variable size. Its not is also not clear

B) Qty SFID request has size M. But, there is no definition about M

Suggested Remedy

Clarify its size and note

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

No text proposed.

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10230L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 213 Line 24 Fig/Table# Subclause 16.2.3.47
16.2.3.47 AAI-RNG-CFM should be together with other RNG messages

Suggested Remedy

Change section 16.2.3.47 AAI-RNG-CFM to section 16.2.3.4 AAI-RNG-CFM that follows section 16.2.3.3 AAI_RNG-ACK

GroupResolution

Decision of Group: Agree

Change section 16.2.3.47 AAI-RNG-CFM to section 16.2.3.4 AAI-RNG-CFM that follows section 16.2.3.3 AAI_RNG-ACK

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10231L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial

Part of Dis Satisfied

Page 213 Line 48

Fig/Table#

Subclause 16.2.3.48

AAI_UL_MultiBS_MIMO_SBP should be together with other MIMO messages

Suggested Remedy

Change section 16.2.3.48 AAI_UL_MultiBS_MIMO_SBP to section 16.2.3.42 AAI_UL_MultiBS_MIMO_SBP that follows section 16.2.3.41 AAI_MULTI_BS_SOUNDING-CAL

GroupResolution

Decision of Group: Agree

Change section 16.2.3.48 AAI_UL_MultiBS_MIMO_SBP to section 16.2.3.42 AAI_UL_MultiBS_MIMO_SBP that follows section 16.2.3.41 AAI_MULTI_BS_SOUNDING-CAL

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10232L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 214 Line 8 Fig/Table# 749 Subclause 16.2.3.48

The description of PMlmin attribute is not clear.

E.g. It is not clear what size 4Nnbr to 6Nnbr mean.

Suggested Remedy

Clarify size 4Nnbr to 6Nnbr and it's description in the note

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

No text proposed.

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10233L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 214 Line 47 Fig/Table# Subclause 16.2.3.49

Burst&Resource-Info [1..4] and A) Burst size have condition Present if b == 1
But, there is no definition on "b"

Suggested Remedy

Change the conditions as the following

Burst&Resource-Info [1..4] -- Present if ~~b == 1~~
<ins>HARQ burst sizes are changed. Otherwise, burst sizes of the last GRA allocation are used.<ins>

A) Burst size -- Present if ~~b == 1~~

GroupResolution

Decision of Group: Agree

Change the conditions as the following

Burst&Resource-Info [1..4] -- Present if ~~b == 1~~
<ins>HARQ burst sizes are changed. Otherwise, burst sizes of the last GRA allocation are used.<ins>

A) Burst size -- Present if ~~b == 1~~

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10234L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 214 Line 47 Fig/Table# Subclause 16.2.3.49
Burst&Resource-Info [1..4] and A) Burst size have condition Present if b == 1
But, there is no definition on "b"

Suggested Remedy

Change the conditions as the following

Burst&Resource-Info [1..4] -- Present if ~~b == 1~~
<ins>HARQ burst sizes are changed. Otherwise, burst sizes of the last GRA allocation are used.<ins>

A) Burst size -- Present if ~~b == 1~~

GroupResolution

Decision of Group: Principle

Resolved by comment #233.

Resolution:

Change the conditions as the following

Burst&Resource-Info [1..4] -- Present if ~~b == 1~~
<ins>HARQ burst sizes are changed. Otherwise, burst sizes of the last GRA allocation are used.<ins>

A) Burst size -- Present if ~~b == 1~~

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10235L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 223 Line 29 Fig/Table# 758 Subclause 16.2.3.56

Parameters F) SFH Subpkt 1, G) SFH Subpkt 2, and H) SFH Subpkt 3 have no size and note

Suggested Remedy

Clarify the size and note of Parameters F) SFH Subpkt 1, G) SFH Subpkt 2, and H) SFH Subpkt 3

GroupResolution

Decision of Group: Disagree

Reason for Group's Decision/Resolution

No text proposed.

Group's Notes

Editor's Notes

Editor's Actions b) none needed

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10236L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 223 Line 47 Fig/Table# 758 Subclause 16.2.3.56

AAI_SCD_Info Variable Information from AAI_SCD is included

Does it mean that AAI-SCD message is to be included in MC-ADV?

Suggested Remedy

Clarify if AAI-SCD message is to be included in MC-ADV

GroupResolution

Decision of Group: Agree

No change required to the draft.

Reason for Group's Decision/Resolution

Answer: yes, the AAI_SCD message is included in MC-ADV.

Group's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10237L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 354 Line 27 Fig/Table# 431 Subclause 16.2.13.1.2

A comment was accepted in San Diego meeting to fix fig 431 , but was not implemented correctly

Suggested Remedy

Change PFEH to PEH

GroupResolution

Decision of Group: Agree

In Figure 431, Change PFEH to PEH

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Peretz Feder

Membership Status: Member

Date: 2010-08-13

Comment # A10238L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 405 Line 55 Fig/Table# Subclause 16.2652122

remove "Single Radio" RAT discovery using scanning, procedure can also be done with a dual radio!

AMS shall initiate other RAT discovery using scanning procedure. The single radio AMS shall negotiate scanning procedure before scanning commencement.

Suggested Remedy

change from:

AMS shall initiate other RAT discovery using scanning procedure. The single radio AMS shall negotiate scanning procedure before scanning commencement.

To:

AMS shall initiate other RAT discovery using scanning procedure. The AMS shall negotiate scanning procedure before scanning commencement.

GroupResolution

Decision of Group: Agree

change as indicated:

AMS shall initiate other RAT discovery using scanning procedure. The single radio AMS shall negotiate scanning procedure before scanning commencement.

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Peretz Feder

Membership Status: Member

Date: 2010-08-13

Comment # A10239L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Editorial Part of Dis Satisfied Page 408 Line 40 Fig/Table# Subclause ?

"Radio" dropped for some reason

Suggested Remedy

Change from:

Control signaling messages for the target RAT are exchanged between the single AMS and the target RAT,

to:

Control signaling messages for the target RAT are exchanged between the single **radio** AMS and the target RAT,

GroupResolution

Decision of Group: Agree

Change from:

Control signaling messages for the target RAT are exchanged between the single AMS and the target RAT,

to:

Control signaling messages for the target RAT are exchanged between the single **radio** AMS and the target RAT,

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10240L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 858 Line 21 Fig/Table# Subclause 16.8.2.4.1

All MAC control message should be section 16.2.3

Suggested Remedy

1. Change section 16.8.2.4.1 AAI_LBS-ADV Message to section 16.2.3.59 AAI_LBS-ADV Message that follows section 16.2.3.58

GroupResolution

Decision of Group: Agree

Move section 16.8.2.4.1 AAI_LBS-ADV Message to new section 16.2.3.59 AAI_LBS-ADV Message (new section follows section 16.2.3.58)

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by: Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10241L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 860 Line 57 Fig/Table# Subclause 16.8.2.4.2

All MAC control message should be section 16.2.3

Suggested Remedy

Change section 16.8.2.4.2 LBS Measurement Message formats to to section 16.2.3.60 AAI_LBS-IND Message
2. Place section 16.2.3.60 AAI_LBS-IND Message after section 16.2.3.59

GroupResolution

Decision of Group: Agree

Move section 16.8.2.4.2 LBS Measurement Message formats to to section 16.2.3.60 AAI_LBS-IND Message (new subclause)

Reason for Group's Decision/Resolution

Group's Notes

Editor's Notes

Editor's Actions a) done

2010/10/25

IEEE 802.16-10/0045r3

Comment by:

Joey Chou

Membership Status: Member

Date: 2010-08-12

Comment # A10242L

Document under Review: P802.16m/D7

Ballot ID: sb_16m

Comment Type Technical Part of Dis Satisfied Page 889 Line 4 Fig/Table# Subclause Annex P.2

When optional attributes in MAC control message tables are coded in ASN.1, they are attached with OPTIONAL tag. The condition information in the tables are lost. There has to be a way in the ASN.1 code to retain the condition information.

Suggested Remedy

Adopt contribution C80216m-10_1025.doc or later revision

GroupResolution

Decision of Group: Agree

No text change required by informational contribution.

Reason for Group's Decision/Resolution

The contribution does not contain any proposed text, only information.

Group's Notes

Editor's Notes

Editor's Actions b) none needed