

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	amendment for MBS primitive	
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Re:	Contribution on comments to P802.16g-D5	
Abstract	In this contribution, we propose to add MBS Info attribution within MBS primitive and some clarification about MBS related attribute.	
Purpose	Adoption	
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Amendment for MBS primitives

1. Introduction

In the current baseline document, it has a MBS section. In this section, there has defined how to set MBS information to a BS, but if the information has been changed, it does not specify clearly how BS will do. To resolve the issue, this contribution adds some clarifications about this issue. It also adds new MBS primitives to give the information of MBS attribute which will initiate the air link to be created or deleted.

2. Proposed Text Changes

14.2.12.2 MBS Configuration Management

14.2.12.2.1 C-MBS-REQ (Set)

Function:

This primitive is send by the NCMS to a BS, to configure the MBS **information** of the BS.

Semantics of this primitive:

C-MBS-REQ

```
(
  Message_id,
  Operation_Type(Action),
  Action_Type(Set),
  Object_id(BSID),
  Attribute_List:
    MBS Zone
    MBS Type
)
```

Operation_Type

Action

Object ID

Object identifier

Action Type

Set

MBS Zone

ID of the MBS zone as defined in IEEE Std 802.16e-2005 section 6.3.23.2.4. **If the ID is 0xFF, it means that the BS does not belong to the MBSZone anymore. If the ID is not same as the value stored in BS, BS should modify according to the new value.**

MBS Type

Type of MBS mode which shall be used. Two MBS types are defined:
 - Type 1 for MBS without macro diversity,
 - Type 2 for MBS with macro diversity

If the MBS Zone is 0xFF, this parameter is omitted. If the value is not the same as the value stored in BS, BS should update to the new value accordingly.

14.2.12.3 MBS Configuration management

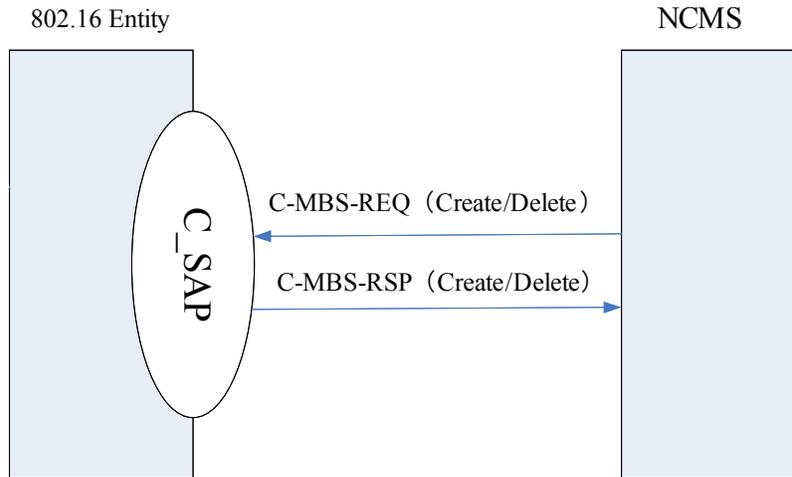


Figure 517— MBS Configuration management Primitives (Create and Delete)

14.2.12.3.2 C-MBS-REQ

14.2.12.3.2.1 C-MBS-REQ (Create)

Function:

This primitive can be from IEEE802.16 entities or NCMS, and is used to notify the BSs which are in one MBS zone to create a new MBS transmitted radio link

Semantics of the service primitive:

The parameters of the primitives are as follows:

```

C-MBS-REQ
(
  Message_id,
  Operation_Type(Create),
  Action_Type(Null),
  Object_id(BSID),
  Attribute_list:
    MBS Zone
    Service flow ID
    Service flow information
    CS parameter information
)
  
```

MBS Zone

ID of the MBS zone as defined in IEEE Std 802.16e-2005 section 6.3.23.2.4

Service flow ID

Unique identifier to identify a unidirectional service flow, included in the primitive for NCMS initiated service flow creation.

Service flow information

Required QoS information of a service flow include traffic characteristics and a scheduling type such as service class name, QoS parameter set type, maximum sustained traffic rate, maximum traffic burst, minimum reserved traffic rate, minimum tolerable traffic rate, service flow scheduling type, tolerate jitter and maximum latency, the connection identifier CID, Logical Channel ID and security association.

CS parameter information

Required CS information for classification and handling of the service flow.

When generated:

This primitive used from NCMS to 802.16 entities when the new MBS service data need to be delivered.

Effect of receipt:

The 802.16 entites receiving the primitive shall trigger transmitting the DSA-REQ messages following the information provided by this primitive.

14.2.12.3.2.2 C-MBS-REQ (Delete)

Function:

When Operation Type is set to 'Delete', this primitive shall be used to initiate an existing MBS radio link deletion by NCMS.

Semantics of the service primitive:

The parameters of the primitive are as follows:

```

C-MBS-REQ
(
  Message_id,
  Operation_Type(Delete),
  Action_Type(Null),
  Object_id(BSID),
  Attribute_list:
    MBS Zone
)
MBS Zone

```

ID of the MBS zone as defined in IEEE Std 802.16e-2005 section 6.3.23.2.4.

When generated:

This primitive is from NCMS to BS to inform the 802.16 entities of the deletion of an existing MBS radio link.

Effect of receipt:

The 802.16 entity receiving the primitive shall transmit the DSD-REQ message to release the MBS radio link.

14.2.12.3.3 C-MBS-RSP

14.2.12.3.3.1 C-MBS-RSP (Create)

Function:

This primitive is used by the 802.16 entities to respond to the C-MBS-REQ for a MBS radio link creation. The MBS path information in this primitive contains approved QoS information if the request is accepted.

Semantics of the service primitive:

The parameters of the primitives are as follows:

C-MBS-RSP

```
(
  Message_id,
  Operation_Type(Create),
  Action_Type(Null),
  Object_id(NCMS),
  Attribute_list:
    MBS Zone
    Service flow ID
    Service flow information
    CS parameter information
    Error Reason
)
```

MBS Zone

ID of the MBS zone as defined in IEEE Std 802.16e-2005 section 6.3.23.2.4.

Service flow ID

Unique identifier to identify a service flow

Service flow information

Approved complete QoS information of a service flow such as service class name, QoS parameter set type, maximum sustained traffic rate, maximum traffic burst, minimum reserved traffic rate, minimum tolerable traffic rate, service flow scheduling type, tolerate jitter and maximum latency, target Packet Error Rate, connection identifier CID, Logical Channel ID and security association.

Error Reason

Failed reason if a C-MBS-REQ is rejected

When generated:

This primitive is generated when an 802.16 entity receives a C-MBS-REQ (Create) primitive.

Effect of receipt:

The NCMS receiving the primitive will record the parameters in it.

14.2.12.3.3.2 C-MBS-RSP (Delete)

Function:

This primitive is used by the 802.16 entities to respond to the C-MBS-REQ for a MBS radio link deletion.

Semantics of the service primitive:

The parameters of the primitives are as follows:

C-MBS-RSP

```
(  
  Message_id,  
  Operation_Type(Delete),  
  Action_Type(Null),  
  Object_id(NCMS),  
  Attribute_list:  
    MBS Zone  
    BSID  
    Error Reason  
)
```

MBS Zone

ID of the MBS zone as defined in IEEE Std 802.16e-2005 section 6.3.23.2.4.

BSID

ID of the BS which is response to the MBS data path deletion

Error Reason

Failed reason if a C-MBS-REQ is rejected

When generated:

This primitive is generated when an 802.16 entity receives a C-MBS-REQ (Delete) primitive.

Effect of receipt:

The NCMS receiving the primitive will know that whether the MBS radio link be deleted.