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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 Data Path 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 specify clearly how BS will do. To resolve the issue, this contribution adds some clarifications about this issue. It also add Data Path Info attribute.

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
    Data Path Information
)
```

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 FF, 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 FF, 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.

Data Path Information

It describes the Data Path in the direction opposite to that in which the primitive is sent. It potentially includes:

- Data Path Type specifies the type of the Data Path (e.g. GRE, MPLS, VLAN, etc.)
- Data Path ID specifies Data Path ID (e.g. LSP identification for MPLS, GRE Key for GRE, LAN ID for VLAN, etc.). This ID can be used as unique identifier to identify a single data path between BS and NCMS or can be used as MBSZoneID to identify multiple data paths for this MBSZone.
- List of Classifiers that identify what data SHOULD be classified onto the Data Path and allows optional negotiating Data Path IDs on per flow (IEEE 802.16 Connection) basis.
- Multicast Info. Specifies relation of the Data Path to the IP Multicast Group.
- Endpoint Identifier. Specifies the addressable subscriber-side endpoint for which the Data Path is being established or maintained.
- Data Integrity informaton: data integrity related information for this data path

14.2.12.2.2 C-MBS-RSP (Set)

Function:

This primitive is send by a BS to the NCMS in response to a C-MBS-REQ (Set) primitive.

Semantics of this primitive:

C-MBS-RSP

```
(
  Message_id,
  Operation_Type(Action),
  Action_Type(Set),
  Object_id(NCMS Node_ID),
  Attribute_List:
    MBS Error parameter information
    Data Path Information
)
```

Operation_Type

Action

Object ID

Object identifier

Action Type

Set

MBS Error parameter information

Failed reason

Data Path Information

It describes the Data Path in the direction opposite to that in which the primitive is sent. It potentially includes:

- **Data Path Type** specifies the type of the Data Path (e.g. GRE, MPLS, VLAN, etc.)
- **Data Path ID** specifies Data Path ID (e.g. LSP identification for MPLS, GRE Key for GRE, LAN ID for VLAN, etc.). This ID can be used as unique identifier to identify a single data path between BS and NCMS or can be used as MBSZoneID to identify multiple data paths for this MBSZone.
- **List of Classifiers** that identify what data SHOULD be classified onto the Data Path and allows optional negotiating Data Path IDs on per flow (IEEE 802.16 Connection) basis.
- **Multicast Info.** Specifies relation of the Data Path to the IP Multicast Group.
- **Endpoint Identifier.** Specifies the addressable subscriber-side endpoint for which the Data Path is being established or maintained.
- **Data Integrity informaton:** data integrity related information for this data path