Project	IEEE 802.16 Broadband Wireless Access Working Group <**http://ieee802.org/16**>
Title	Editorial Corrections for RS_Config-REQ Message in the Baseline Text of 80216j-06/026r3
Date Submitted	2007-04-25
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Re:	Call for Technical Proposals regarding IEEE Project P802.16j (IEEE 802.16j-07/013)
Abstract	This contribution proposes fixed and nomadic relay-station preamble segment assignment scheme in order to mitigate interference during the initial RS network entry.
Purpose	Propose the text regarding fixed and nomadic relay-station preamble segment assignment for multihop relay systems
Notice	
Release	
Patent Policy and Procedures	

Editorial Corrections for RS_Config-REQ/RSP Message in the Baseline Text of 80216j-06/026r3

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1. INTRODUCTION

The contribution is to merge RS_Config-REQ message field in Section 6.3.2.3.67 and Section 6.3.2.3.69 of the baseline text of 80216j-06_026r3.

2. CHANGES TO THE SPECIFICATION

2.1 [Please do the following changes]

Page 26, line 4

Table <XXX>—RS_Config-RSREQ message format

Page 26, line 8

RS_Config-RSREQ message format

Page 27, line 33

Rename RS_Config_REQ_Message_format to some other name, for example Relay_Configuration_Description.

2.2 [Please merge RS_Config-REQ message field in Section 6.3.2.3.67 and Section 6.3.2.3.69]

6.3.2.3.67 ~~MR-BS-~~RS Configuration Request ~~Response~~ Message

This message may be transmitted by an MR-BS for the purpose of RS configuration. An MR-BS may use this message to set operation parameters for an RS. MR-BS may transmit this message as a response to RS_Config-RSREQ or as an unsolicited message and to configure the RS.

Table <xxx> RS_Config-~~RSP~~REQ message format

Syntax	Size	Notes
RS_Config-~~RSP~~REQ_Message_Format() {		
Management message type = TBD	8 bits	

Configured_para_type	8 bits	b0 = 1: preamble configuration is included;
		b1 = 1: remove multicast RSID to disassociate from the RS group;
		b2 = 1: Unicast RSID is included;
		b3 = 1: Multicast RSID is included;
		b4 = 0; Do not transmit preamble; 1: transmit the assigned preamble.
		b5 – b7: reserved

If (b0 of Configured_para_type == 1) {		
~~Reserved~~	~~1 bit~~	
~~Preamble index~~	~~7 bits~~	
N_Preamble	2 bits	N_Preamble=0 specifies NULL preamble (e.g., Transparent RS) N_Preamble=1 assigns one preamble to the RS N_Preamble=2 assigns two preambles on different segments to the RS N_Preamble=3 assigns three preambles on different segments to the RS
Reserved	6 bits	Reserved
For (i=0, i<N_Preamble; i++){		
Preamble_index	8 bits	Assign a preamble index value to the potential RS
}		
}		
If (b2 of Configured_para_type == 1) {		
Unicast RSID	8 bits	Unicast RSID
}		
If (b3 of Configured_para_type == 1) {		
Multicast RSID	8 bits	Multicast RSID as the RS Group ID
}		
TLV Encoded Information	Variable	TLV specific
}		

Configuration_para_type

The first bit is used as preamble index indicator to indicate the preamble_index field is present in this message. The second bit is used as the indicator to instruct the RS to remove its multicast RSID so that it is disassociate from the current RS group. The third bit is used as the Unicast RSID indicator to indicate the Unicast RSID field is present in this message. The fourth bit is used as the Multicast RSID indicator to indicate the Multicast RSID field is present in this message.

Preamble_index

This field is used to indicate the preamble index

RS_response_required

This field is used to enable RS to accept/deny the preamble assignment.

Unicast RSID

This field is used to indicate the Unicast RSID

Multicast RSID

This field is used to indicate the Multicast RSID for RS group operations

N-Preamble

N_Preamble is the number of preamble index assigned to the potential RS. For example, N-Preamble=0 means the potential RS does not transmit preamble acting as a Transparent RS. If N-Preamble=1 means the potential RS transmit one preamble index (i.e., the RS transmit one segment value and one IDCell) acting as a Non-Transparent RS. If N-Preamble=2 means the potential RS transmit two preamble index (i.e., the RS transmit two different segment values and IDCells) acting as a Non-Transparent RS.

The RS_Config-REQ shall contain the following TLVs:
HMAC/CMAC Tuple (see 11.1.2)
The HMAC/CMAC Tuple shall be the last attribute in the message.

2.3 [Delete the table in Section 6.3.2.3.67 in P.30 of the baseline text of 80216j-06_026r3]

6.3.2.3.67 ~~MR-BS configuration response message~~

~~This message may be transmitted by an MR-BS for the purpose of RS configuration. An MR-BS may use this message to set operation parameters for an RS. MR-BS may transmit this message as a response to RS_Config-REQ or as an unsolicited message.~~

~~Table <xxx> RS_Config-RSP message format~~

~~Syntax~~	~~Size~~	~~Notes~~
~~R S_Config-RSP format {~~		
~~Management message type = 68~~	~~8 bits~~	
~~Configured_para_type~~	~~8 bits~~	~~b0 = 1: preamble configuration is included;~~ ~~b1 = 1: remove multicast RSID to disassociate from the RS group;~~ ~~b2 = 1: Unicast RSID is included;~~ ~~b3 = 1: Multicast RSID is included;~~ ~~b4 = 0; Do not transmit preamble; 1: transmit~~ ~~the assigned preamble.~~ ~~B5 – b7: reserved~~
~~If (b0 of Configured_para_type == 1) {~~		~~Assign a preamble index value to the potential RS~~
~~r eserved~~	~~1 bits~~	~~Shall be zero~~
~~Preamble_index~~	~~7 bits~~	~~Preamble index~~
~~}~~		
~~If (b2 of Configured_para_type == 1) {~~		
~~Unicast RSID~~	~~8 bits~~	~~Unicast RSID~~
~~}~~		
~~If (b3 of Configured_para_type == 1) {~~		
~~Multicast RSID~~	~~8 bits~~	~~Multicast RSID as the RS Group ID~~
~~}~~		
~~}~~		

~~**Configuration_para_type**~~

~~The first bit is used as preamble index indicator to indicate the preamble_index field is present in this message~~

~~The second bit is used as the indicator to instruct the RS to remove its multicast RSID so that it is disassociate from the current RS group~~

~~The third bit is used as the Unicast RSID indicator to indicate the Unicast RSID field is present in this message~~

~~The fourth bit is used as the Multicast RSID indicator to indicate the Multicast RSID field is present in this message~~

Preamble_index
This field is used to indicate the preamble index
Unicast RSID
This field is used to indicate the Unicast RSID
Multicast RSID
This field is used to indicate the Multicast RSID for RS group operations

2.4 [Delete Section 6.3.2.3.69 in P.32 of the baseline text of 80216j-06_026r3]

6.3.2.3.69 RS preamble configuration request (RS_Config-REQ) message

Syntax	Size	Notes
N_Preamble	2 bits	N_Preamble=0 specifies NULL preamble (e.g., Transparent RS) N_Preamble=1 assigns one preamble to the RS N_Preamble=2 assigns two preambles on different segments to the RS N_Preamble=3 assigns three preambles on different segments to the RS
Reserved	6 bits	Reserved
For (i=0, i<N_Preamble; i++){		
Preamble index	8 bits	Assign a preamble index value to the potential RS
}		
TLV Encoded Information	Variable	TLV specific

N-Preamble
N_Preamble is the number of preamble index assigned to the potential RS. For example, N-Preamble=0 means the potential RS does not transmit preamble acting as a Transparent RS. If N-Preamble=1 means the potential RS transmit one preamble index (i.e., the RS transmit one segment value and one IDCell) acting as a Non-Transparent RS. If N-Preamble=2 means the potential RS transmit two preamble index (i.e., the RS transmit two different segment values and IDCells) acting as a Non-Transparent RS.

The RS_Config-REQ shall contain the following TLVs:
HMAC/CMAC Tuple (see 11.1.2)
The HMAC/CMAC Tuple shall be the last attribute in the message