Project	IEEE 802.16 Broadband Wireless Access Working Group <a href="http://ieee802.org/16">http://ieee802.org/16</a> R-MAC Header Format Enabling Source QoS Control			
Title				
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Source(s)	Hang Zhang, Peiying Zhu, Mo-Han Fong, Wen Tong, David Steer, Gamini Senarath, G.Q. Wang, Derek Yu, Israfil Bahceci, Robert Sun and Mark Naden Nortel 3500 Carling Avenue Ottawa, Ontario K2H 8E9			
Re:	IEEE 802.16j-07/019: "Call for Technical Comments Regarding IEEE Project 802.16j"			
Abstract	In this contribution, R-MAC PDU format enabling source QoS control is proposed			
Purpose	To incorporate the proposed text into the P802.16j Baseline Document (IEEE 802.16j-06/026r4)			
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# R-MAC Header Format Enabling Source QoS Control

Hang Zhang, Peiying Zhu, Mo-Han Fong, Wen Tong, David Steer, Gamini Senarath, G.Q. Wang, Derek Yu, Israfil Bahceci, Robert Sun and Mark Naden Nortel

### 1. Introduction

In this contribution, R-MAC PDU format enabling source QoS control is proposed.

## 2. Proposal

In contribution C80216j\_07/424, source QoS control is proposed. For enabling source QoS control, the R-MAC header shall carry scheduling instruction: transmission deadline and QoS class. The format of source QoS R-MAC header is proposed in the following figure.

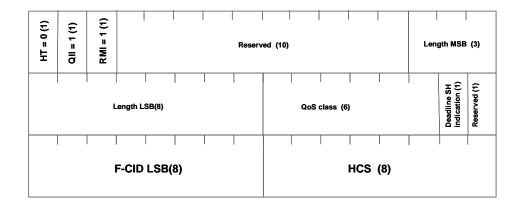


Figure 1. Source QoS header.

In this source QoS control R-MAC header, QoS class ID (6 bits) is included. The deadline information may appear as a type of R-MAC sub-header. The presence of deadline sub-header is indicated by the Deadline SH indication bit.

In DL data forwarding using source QoS control method, the MR-BS R-MAC layer creates an R-MAC PDU with the header including scheduling instruction. The F-CID field is the reduced F-CID of the destination RS. In UL data forwarding using source QoS control method, an access RS R-MAC layer in R-link creates an R-MAC PDU with the header including the scheduling instruction. Tee F-CID is the reduced F-CID of this access RS.

## 3. Proposed text change

6.3.2.1.1.1 Source QoS R-MAC header

The R-MAC header is used always with payload and can be used in both DL and UL. The source QoS R-MAC header shall carry scheduling instruction: QoS class and Deadline SH indication. The deadline sub-header will present if the bit of Deadline indication is set to 1. The format of source QoS R-MAC header is shown in Figure XXX.

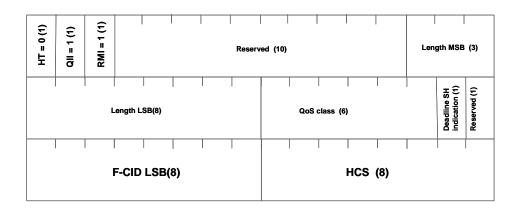


Figure xxx. Format of source QoS R-MAC header.

The source QoS R-MAC header field encoding is show in Table xxx.

Table xxx. source QoS R-MAC header field encodings.

<u>Name</u>	<b>Length (bits)</b>	<b>Description</b>
<u>HT</u>	<u>1</u>	Header type. Should be set to 0
QII	<u>1</u>	QoS information inclusion indication. Shall be set to 1
<u>RMI</u>	<u>1</u>	R-MAC header indication. Shall be set to 1
Reserved	<u>10</u>	
QoS class	<u>6</u>	Index of QoS class of payload
Deadline SH	<u>1</u>	1: Deadline sub-header present
<u>indication</u>		0: Deadline sub-header does not present
Reserved	<u>1</u>	
F-CID	<u>8</u>	Reduced F-CID of the destination access RS for DL or the source RS for UL
<u>HCS</u>	<u>8</u>	Header check sequence

#### [Add the following section 6.3.2.1.1.1.2]

6.3.2.1.1.1.2 R-MAC subheaders and special payloads

#### 6.3.2.1.1.1.2.1 Deadline sub-header

This sub-header presents if the Deadline SH indication in source QoS R-MAC header is set to 1. If this sub-header presents, it shall be the last sub-header.

<b>Syntax</b>	<u>Size</u>	<u>Notes</u>
<u>Deadline</u>	8 bits	<u>Indicates the absolute transmission time (8 LSB of frame number) where the</u>