Project	IEEE 802.16 Broadband Wireless Access Working Group http://ieee802.org/16 Scheduling Service Class for Realtime Non-periodical Application	
Title		
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Re:	TGm SDD: 10.10.3 Scheduling Service	
Abstract	Propose new scheduling service class to support realtime non-periodical application	
Purpose	For discussion and adoption in 802.16m SDD	
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Scheduling Service Class for Realtime Non-periodical Application

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I. Introduction

As listed in the SRD requirement, 16m system needs to support realtime non-periodical application such as on-line gaming. The current 16e scheduling classes cannot accommodate such requirement. A new scheduling service class is need for such purpose. A dedicated bandwidth request ranging sequence based solution can fulfill such requirement. A subsection 10.8.2 as proposed below defines such new scheduling service class together with the mechanism to realize it.

II. Text Proposal

10.10.3 Scheduling Services

In addition to the scheduling services supported by the legacy system, IEEE 802.16m provides a specific scheduling service <u>- realtime Dedicated Ranging channel based Service (rtDRS)</u> to support realtime non-periodical applications such as on-line gaming. The detailed scheduling mechanism and the service flow parameters are FFS.

With rtDRS, a dedicated bandwidth request channel ID (e.g. ranging sequence/location) is allocated to the connection during service flow establishment procedure. The service flow parameters for rtDRS include default QoS parameters. Once receiving the dedicated bandwidth request channel ID, the BS directly grants the resource based on the default QoS parameters defined in the service flow parameters. If additional configuration of the allocation is needed, the

MS sends a piggybacked BW-REQ information together with the data.
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