

Project	<b>IEEE 802.16 Broadband Wireless Access Working Group</b> < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >	
Title	<b>Extended rtPS refinements</b>	
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Re:	IEEE P802.16e/D6	
Abstract	Refinements and text clarification for Extended rtPS	
Purpose	Adoption of proposed changes into P802.16e /D6	
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# Extended rtPS refinements

*Zivan Ori, Yigal Eliaspur*

## 1 Motivation

I object to the resolution of comment 2084 from Session 35 (Contribution C80216e-04\_522r3) because many things were left out of the standard or have been written unclearly

Extended rtPS feature need to be define also as part of the data delivery services.

## 2 Proposed text changes

*[Change in section 6.3.2.2.1]*

*[Change in Table 9]*

Reserved 14 bits' --> 9 bits

Extended Piggyback Request 16 bits --> 11 bits

*[Change in section 6.3.5.2.2.1]*

6.3.5.2.2.1 Extended rtPS

Extended rtPS is a scheduling mechanism which builds on the efficiency of both UGS and rtPS. The BS shall provide unicast grants in an unsolicited manner like in UGS, thus saving the latency of a bandwidth request. However, whereas UGS allocations are fixed in size, ertPS allocations are dynamic. The SS can change the size of the periodic allocation using regular bandwidth requests. The size of bandwidth requested shall be treated by the BS as the size of the periodic allocation to grant the SS (See 6.3.2.2.1, Extended Piggyback Request field).

~~The extended rtPS has the additional functionality of rtPS.~~

*[Change in section 6.13.18.1]*

6.3.18.1 Types of data delivery services

Table 132a

Type 4            ERT -VR            Extended Real-TimeVariable Rate Service.

For UL connections should be supported by ertPS scheduling service.

*[Insert new section 6.3.18.1.5]*

6.3.18.1.5 Extended Real-Time Variable Rate (ERT-VR) Service

This service is to support real-time data applications with variable data-rates which require guaranteed data and delay, for example VoIP with silence suppression. The parameters required for this service are in Table 132f.

Table 132f

Parameter	Meaning
Maximum Latency	As specified in 11.13.14
Tolerated Jitter	As specified in 11.13.13
Minimum Reserved Traffic Rate	As specified in 11.13.8
Maximum Sustained Traffic Rate	As specified in 11.13.6
Traffic Priority	As specified in 11.13.5
Request/Transmission Policy	As specified in 11.13.12
Unsolicited Grant Interval	As specified in 11.13.28

*[Change in section 11.13.22 Type of Data Delivery Services]*

*[Add new value]*

4: Extended Real Time Variable Rate Service