Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**	
Title		
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Re:	IEEE 802.16 Session #47 plus over the phone	
Abstract	This contribution proposes the updates of IEEE 802.16g D7 document in order to obtain loading information from the Base Station	
Purpose	Update 802.16g draft: MS HO decision factoring the BS loading figures.	
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DL and UL Radio Resource Reporting in the DCD and UCD message

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1. Introduction

Currently the **Non-pre-assigned DL or UL radio resource encoding information of neighboring BSs is reported in the NBR_ADV message. However, the serving BS needs to report it as well. By adding the same TLVs to the DCD and UCD message this situation is corrected.**

2. Proposed Text Change

Remedy:

Factor the loading information when determining the target BS for handover.

Add to section 11.4.1 TLV (type 23) - Non-pre-assigned DL radio resource encoding

Non-pre-assigned DL radio resources shall indicate the average percentage of non-pre-assigned physical radio resources for DL where averaging shall take place over a time interval which shall be a configurable value (with a default value of the last 200 frames) common to all BS within an operator network. Available physical radio resources shall be defined as the set of subchannels and symbols within a radio frame, which are not used by any non-best-effort service flow class as identified by either the uplink grant scheduling type or the data delivery service as identified in the service flow encodings.

Type	Length(bytes)	Value	Scope
23	1	0x00: 0% 0x01 : 1%, ..., 0x64 : 100% 0x65 - 0xFE : reserved, 0xFF indicates no information available	MOB_NBR-ADV, DCD

Add to section 11.3.1 TLV (type 24) - Non-pre-assigned UL radio resource encoding

Non-pre-assigned UL radio resources shall indicate the average percentage of non-pre-assigned available physical radio resources for UL where averaging shall take place over a time interval which shall be a configurable value (with a default value of the last 200 frames) common to all BS within an operator network. Available physical radio resources shall be defined as the set of subchannels and symbols within a radio frame, which are not used by any non-best-effort service flow class as identified by either the uplink grant scheduling type or the data delivery service as identified in the service flow encodings.

Type	Length(bytes)	Value	Scope
24	1	0x00: 0% 0x01 : 1%, ..., 0x64 : 100% 0x65 - 0xFE : reserved, 0xFF indicates no information available	MOB_NBR-ADV, UCD