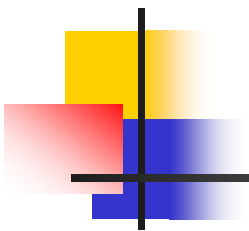

Project	IEEE 802.20 Working Group on Mobile Broadband Wireless Access < http://grouper.ieee.org/groups/802/20/ >	
Title	Performance Requirements for Mobile Broadband Wireless Access System	
Date Submitted	2004-01-12	
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Re:	MBWA Call for Contributions – Session 6, January 12-15, 2004	
Abstract	This contribution documents a few performance parameter requirements for the MBWA Standard.	
Purpose	Review and adopt	
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To be a successful standard, IEEE 802.20 MBWA must deliver a Standard that provides performance gains over existing wireless access systems by a considerable margin.



This contribution focuses on the following four parameters:

- Aggregate data rates
- Peak user data rates
- Airlink MAC RTT
- Spectral efficiency

Parameter	Bandwidth							
	1.25 MHz				5 MHz			
	Down Link		Up Link		Down Link		Up Link	
	Ø1	Ø2	Ø1	Ø2	Ø1	Ø2	Ø1	Ø2
Aggregate Data Throughput/sector	1.5 Mbps	3.0 Mbps	0.75 Mbps	1.5 Mbps	6.0 Mbps	12.0 Mbps	3.0 Mbps	6.0 Mbps
Peak User Data Rate	3.0 Mbps	4.5 Mbps	1.5 Mbps	2.25 Mbps	12.0 Mbps	18.0 Mbps	6.0 Mbps	9.0 Mbps
Airlink MAC RTT	<10 msec	<8.0 msec	<10 msec	<8.0 msec	<10 msec	<8.0 msec	<10 msec	<8.0 msec
Spectral Efficiency (b/s/Hz/sector)	1.2	2.4	0.6	1.2	1.2	2.4	0.6	1.2

Ø1: Phase 1 Ø2: Phase 2