

[IMT-Advanced]

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1 ITU-R WP5D 가 2008 1 . WP5D 2007
 10 WRC-07
 Study Group 5(SG5) IMT . WP5D
 IMT-2000 beyond IMT-2000 ITU-R WP8F .
 ITU-R WP8F

가 .
 IMT-Advanced , WRC-07 가 IMT
 , 6 IMT-2000 OFDMA TDD WMAN
 IMT-2000 , IMT-2000 .

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 8 가
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 , 4) , 5) , 6) 가 , 7) 가 가
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 2000 .
 IEEE 802.16e()가 6 IMT-2000
 1997
 IMT-2000 IMT-2000 IMT-
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 1), 2), 8)

1) Cell spectral efficiency, 2) Peak spectral efficiency, 3) Bandwidth, 4) Cell edge user throughput, 5) Latency, 6) Mobility, 7) Handover, 8) VoIP capacity .

3G (), ()
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(, IEEE), ()

가 .

8 가 5) latency control plane 100ms, user plane 10ms
 6) mobility stationary(0 km/h), pedestrian(0-10 km/h), vehicular(10-120 km/h), high speed vehicular(120-350 km/h)
 8) VoIP capacity 40 active user/MHz/cell
 5 1) Cell spectral efficiency, 2) Peak spectral efficiency, 3) Bandwidth, 4) Cell edge user throughput, 7) Handover

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Min. technical req. item (test environment)		Parameter value			
		Indoor	Micro cellular	Base Coverage Urban	High speed vehicular
Cell spectral efficiency (bps/Hz/Cell)	DL	[3] (4x2)	[2.6] (4x2)	[2.1] (4x2)	[1] (4x2)
	UL	[2.5] (2x4) or [1.5] (1x4)	[2] (2x4) or [1.3] (1x4)	[1.7] (2x4) or [1.2] (1x4)	[0.7] (2x4) or [0.6] (1x4)
Peak spectral efficiency (bps/Hz)	DL	[10/7] (4x4)			
	UL	[5/2.5] (2x4)			
Bandwidth (MHz)		[20 / 40]			
Cell edge throughput (bps/Hz)	DL	[0.1]	[0.075]	[0.06]	[0.05]
	UL	[0.08]	[0.05]	[0.03]	[0.02]
Latency (ms)	Control plane	100			
	User plane	10			
Handover (ms)	Intra freq.	[25/30]			
	Inter freq.	Within spectrum band [TBD]			
	Inter freq.	Between spectrum band [TBD]			
Mobility		Stationary Pedestrian	Stationary Pedestrian	Stationary Pedestrian Vehicular	Vehicular, High speed vehicular
VoIP (Active users / MHz/cell)		[40]			

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