

Project	<b>IEEE 802.20 Working Group on Mobile Broadband Wireless Access</b> < <a href="http://grouper.ieee.org/groups/802/20/">http://grouper.ieee.org/groups/802/20/</a> >
Title	<b>Band Classes considered for MBWA MPS</b>
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Re:	The MBWA minimum performance project
Abstract	This contribution lists all the band classes referred to in the MPS contributions
Purpose	For consideration of 802.20
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## Introduction

In this contribution, we summarize the different band classes and subclasses as well as their respective duplexer gaps. In the next table, for each band class/subclass, we list the band for forward link channels and reverse link channels. The duplexer gap is the gap between the FL band and RL band.

Table 1. Duplexer gaps for all band classes and subclasses

Band Class	Subclass	Reverse Link Band (MHz)	Forward Link Band (MHz)	Duplexer Gap (MHz)	Recommended Bandwidth (MHz)
0	0	824.000 – 849.000	869.000 – 894.000	20.000	4.608 <sup>1</sup> , 9.216 <sup>2</sup>
	1	824.000 – 849.000	869.000 – 894.000	20.000	4.608, 9.216
	2	824.000 – 830.000	869.000 – 875.000	39.000	4.608, 9.216
	3	815.000 – 830.000	860.000 – 875.000	30.000	4.608, 9.216
1		1850.000 – 1910.000	1930.000 – 1990.000	20.000	4.608, 9.216
2	0	890.000 – 905.000	935.000 – 950.000	30.000	4.608, 9.216
	1	890.000 – 915.000	935.000 – 960.000	20.000	4.608, 9.216
	2	872.000 – 905.000	917.000 – 950.000	12.000	4.608, 9.216
3		887.000 – 889.000 893.000 – 901.000 915.000 – 925.000	832.000 – 834.000 838.000 – 846.000 860.000 – 870.000	17.000	4.608, 9.216
	4	1750.000 – 1780.000	1840.000 – 1870.000	60.000	4.608, 9.216
	5	0	452.500 – 457.475	462.500 – 467.475	5.025
1		452.000 – 456.475	462.000 – 466.475	5.525	4.608
2		450.000 – 454.800	460.000 – 464.800	5.200	4.608
3		411.675 – 415.850	421.675 – 425.850	5.825	4.608
4		415.500 – 419.975	425.500 – 429.975	5.525	4.608
5		479.000 – 483.480	489.000 – 493.480	5.520	4.608
6		455.230 – 459.990	465.230 – 469.990	5.240	4.608
7		451.310 – 455.730	461.310 – 465.730	5.580	4.608
8		451.325 – 455.725	461.325 – 465.725	5.600	4.608
9		455.250 – 459.975	465.250 – 469.975	5.275	4.608
10		479.000 – 483.475	489.000 – 493.475	5.525	4.608
11		410.000 – 414.975	420.000 – 424.975	5.025	4.608
6		1920.000 – 1980.000	2110.000 – 2170.000	130.000	4.608, 9.216
7		776.000 – 788.000	746.000 – 758.000	18.000	4.608, 9.216

<sup>1</sup> The recommend bandwidth of 4.608MHz corresponds to a system with 480 non-guard subcarriers.

<sup>2</sup> The recommend bandwidth of 9.216MHz corresponds to a system with 960 non-guard subcarriers.

Band Class	Subclass	Reverse Link Band (MHz)	Forward Link Band (MHz)	Duplexer Gap (MHz)	Recommended Bandwidth (MHz)
8		1710.000 – 1785.000	1805.000 – 1880.000	20.000	4.608, 9.216
9		880.000 – 915.000	925.000 – 960.000	10.000	4.608, 9.216
10	0	806.000 – 811.000	851.000 – 856.000	40.000	4.608, 9.216
	1	811.000 – 816.000	856.000 – 861.000	40.000	4.608, 9.216
	2	816.000 – 821.000	861.000 – 866.000	40.000	4.608, 9.216
	3	821.000 – 824.000	866.000 – 869.000	42.000	4.608, 9.216
	4	896.000 – 901.000	935.000 – 940.000	34.000	4.608, 9.216
11	0	452.500 – 457.475	462.500 – 467.475	5.025	4.608
	1	452.000 – 456.475	462.000 – 466.475	5.525	4.608
	2	450.000 – 454.800	460.000 – 464.800	5.200	4.608
	3	411.675 – 415.850	421.675 – 425.850	5.825	4.608
	4	415.500 – 419.975	425.500 – 429.975	5.525	4.608
	5	Not specified	Not specified	Not specified	Not specified
	6	Not specified	Not specified	Not specified	Not specified
	7	Not specified	Not specified	Not specified	Not specified
	8	451.325 – 455.725	461.325 – 465.725	5.600	4.608
	9	455.250 – 459.975	465.250 – 469.975	5.275	4.608
	10	479.000 – 483.475	489.000 – 493.475	5.525	4.608
	11	410.000 – 414.975	420.000 – 424.975	5.025	4.608
12	0	870.000 – 876.000	915.000 – 921.000	39.000	4.608, 9.216
	1	871.500 – 874.500	916.500 – 919.500	42.000	4.608, 9.216
	2	870.000 – 876.000	915.000 – 921.000	39.000	4.608, 9.216
13		2500.000 – 2570.000	2620.000 – 2690.000	50.000	4.608, 9.216
14		1850.000 – 1915.000	1930.000 – 1995.000	15.000	4.608, 9.216
15		1710.000 – 1755.000	2110.000 – 2155.000	355.000	4.608, 9.216
16		2502.000 – 2568.000	2624.000 – 2690.000	56.000	4.608, 9.216
17		Not specified	Not specified	Not specified	Not specified
18		787.000 – 799.000	757.000 – 769.000	18.000	4.608, 9.216
19		698.000 – 716.000	728.000 – 746.000	12.000	4.608, 9.216

