

RF Spectrum Open Issues

Frequency Bands and Center Frequencies

It was suggested on the Nov 20 Ad Hoc call that we combined the FDD DS frequency band and center frequency increment into a set of mandatory and another set of optional center frequencies. So the following table does just that.

FDD Downstream Channels (Center Frequencies)

Parameter	Possible Values	Recommendation to TF
Mandatory Channel Set	[648, 650, ... 904, 906]	
Optional Channel Set	[204, 206, ... 644, 646] and [908, 910, ... 1702, 1704]	

We may also want to take the same approach for the FDD US and for TDD once we have an idea of the channel bandwidth.

FDD Upstream Band

Parameter	Possible Values	Recommendation to TF
FDD US Lower Band Edge	<ul style="list-style-type: none">• 5 MHz• 15 MHz	
FDD US Upper Band Edge	<ul style="list-style-type: none">• 200 MHz• 250 MHz	

TDD Band1

Parameter	Possible Values	Recommendation to TF
TDD Band1 Lower Band Edge	<ul style="list-style-type: none">• 5 MHz	
TDD Band1 Upper Band Edge	<ul style="list-style-type: none">• 200 MHz	

TDD Band2

Parameter	Possible Values	Recommendation to TF
TDD Band2 Lower Band Edge	<ul style="list-style-type: none">• 860 MHz• 960 MHz	
TDD Band2 Upper Band Edge	<ul style="list-style-type: none">• 1200 MHz• Approx. 1800 MHz	

Center Frequency Tunability

Parameter	Possible Values	Recommendation to TF
FDD US Center Frequency Tunability Resolution	<ul style="list-style-type: none">• 2 MHz	
TDD Center Frequency Tunability Resolution	<ul style="list-style-type: none">• 2 MHz	

OFDM Channel Bandwidth

Parameter	Possible Values	Recommendation to TF
FDD DS OFDM Channel Bandwidth	<ul style="list-style-type: none"> • 192 MHz 	TF selected 192 MHz
FDD US OFDM Channel Bandwidth	<ul style="list-style-type: none"> • 192 MHz 	
TDD OFDM Channel Bandwidth	<ul style="list-style-type: none"> • 192 MHz 	

Exclusion Sub-Band Rules

Note, the standard may include multiple exclusion sub-band rules, so the TF may have multiple recommendations to the Task Force on exclusion sub-band rules.

Topic	Possible Rules	Recommendation to TF
FDD DS Exclusion Sub-Band Rules	<ul style="list-style-type: none"> • Exclusion sub-band can be on the lower portion of the channel, the upper part of the channel, or within the channel • Exclusion sub-bands are a multiple of 2 MHz and on a 2 MHz grid (We may need to support smaller sub-bands for cable plant pilots) • After exclusion sub-bands there must be a continuous sub-band of at least 24 MHz wide. (Do we want to make sure this is the middle 24 MHz?) • Do not support exclusion sub-bands for analog TV services within the 192-MHz OFDM channel. 	
FDD US Exclusion Sub-Band Rules	<ul style="list-style-type: none"> • 	
TDD Exclusion Sub-Band Rules	<ul style="list-style-type: none"> • 	