RF Spectrum Ad Hoc – Minutes March 12, 2013

Provided the IEEE-SA Patent Policy link. Everyone on the call was familiar with the patent policy.

- https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf

Everyone on the call was familiar with the IEEE patent policy.

Straw Polls (Duane Remein)

Discussed number of allowed exclusion subbands. We count a single exclusion subband as a continuous block of frequency.

Discussed several reasons for exclusion subbands: protection of legacy service (pilot, TV channel), avoid interference, and limit egress to limit interference to wireless systems

Do not recommend allowing analog TV channel in-band. For a QAM signal we need 0.5 to 1 MHz on each side of the 6 MHz channel. So for a 6 MHz TV channel we may want to exclude approximately 8 MHz exclusion band.

So we should allow for a number of exclusion bands since we are not sure what

Do the MSOs null anything with their current QAMs? Today they either fix it or turn it off.

Today in the downstream they work in 6 or 8 MHz channels.

Are there any bands in US and Europe we need to avoid to limit egress? One band is the aviation band (approximately 108 MHz to several hundred MHz). The other is the LTE band. If we go above 1.2 GHz we can run into GPS and other systems.

If the return path is expanded, we have to be concerned about the FM band. Upstream could exceed the ATSC downstream.

Straw Poll #1
The maximum number of separate internal DS Exclusion Bands should be,

2	0
4	0
6	0
8	3
16	4
Other	1(128)
Abstain	2

We discussed if we should specify a minimum size of the exclusion subband.

You cannot get significant rejection if you only have a 1 MHz exclusion subband.

If there was narrowband interference a 1 MHz exclusion subband could make sense.

Straw Poll #2

The minimum width of a DS exclusion band (internal or edge) should be at least:

1 (min granularity)	7
2	1
6	0
8	0
Other	0
Abstain	2

We discussed possible TDD band frequencies. Would we have one or two TDD bands?

Two bands mentions so far are a low band up to 200 MHz and an upper band starting around 800 MHz.

Attendance

Person	Affiliation
Jim Farmer	Aurora Networks
Marek Hajduczenia	ZTE
Leo Montreuil	Broadcom
Paul Nikolich	YAS Broadband Ventures
Christian Pietsch	Qualcomm
Bill Powell	Alcatel Lucent
Duane Remein	Huawei
Steve Shellhammer	Qualcomm
Tom Staniec	Cohere Communications
Nicola Varanese	Qualcomm

A maximum number of Mid Exclusion Bands

Straw Poll
- The maximum number of separate internal DS Exclusion Bands should be

2	_____
4	_____
6	_____
8	_3____
16	_4____
Other	_1(128)____
Abstain	_2_____
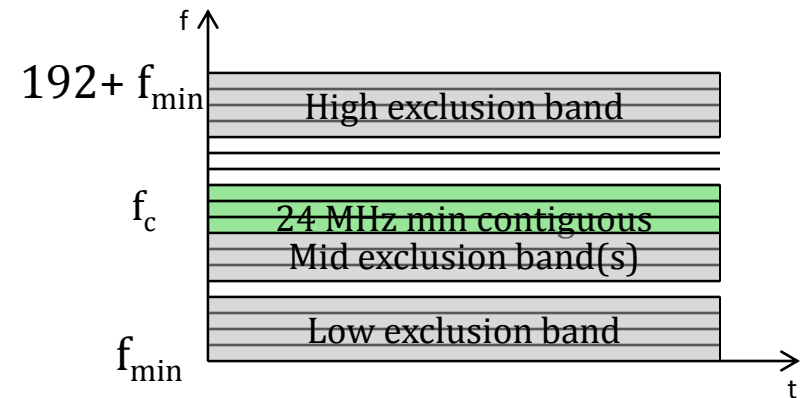
Straw Poll

- The minimum width of a DS exclusion band (internal or edge) should be at least:

  1 (min granularity)   _7___

  2   _1___

  6   ____

  8   ____

  Other   ____

  Abstain _2___