RF Spectrum Ad Hoc – Minutes December 11, 2012

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.

Discussed exclusion sub-bands

Updated one of the recommendations to TF,

- Exclusion sub-bands are for reducing the channel bandwidth, protection of legacy cable services, for controlling known egress/ingress in specific spectrum

Discussed the two methods of specifying exclusion sub-bands

Would like to see how well the spectrum rolls off when we have exclusion sub-bands

In D3.1 there is a 1 MHz guard band on the lower edge and a 1 MHz guard band on the upper band edge. So this is the approximate size of exclusion sub-bands to get sufficient roll off.

In between two QAM channels we get about 50 dB down between the two QAM channels

If we add a window it will provide better roll off

If we give a lot of flexibility then the operators will need to have a good understanding of the impact of these exclusion sub-bands

Will need to talk to the amplifier companies to see what is needed to protect the pilots. Typically use an analog carrier.

Motorola and Cisco 1 GHz amplifiers use a single pilot for balancing the amplifiers. Older systems use dual pilots to balancing. If there are two pilots then there can be two within the 192-MHz channel.

Agreed on some recommendations to the TF

- An exclusion sub-band is a group of contiguous subcarriers
- Exclusion sub-bands consist of a multiple of TBD subcarriers on a TBD MHz grid

The two TBD values will need to be specified, but the group is not ready to select those values yet.

The next call will be after the New Year.

Attendance

Person	**Affiliation**
Edward Boyd	Broadcom
Charlie Chen	Titan Photonics
Jim Farmer	Aurora Networks
Avi Kliger	Broadcom

Benny Lewandowski	CTDI
Leo Montreuil	Broadcom
Michael Peters	Sumitomo Electric
Christian Pietsch	Qualcomm
Bill Powell	Alcatel Lucent
Steve Shellhammer	Qualcomm
Tom Staniec	Cohere Communications
Peter Wolff	Titan Photonics