

RF Spectrum Ad Hoc – Minutes April 22~~3~~, 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>

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Exclusion Band Definition

Definition

Exclusion Subband: A set of adjacent subcarriers indexed [m, m+1, m+2, ... m+k-1], which are configured via MDIO to have zero amplitude.

Straw Poll

Do you support the above definition?

Yes 11
No 1

Use Cases of Exclusion Subbands

1. Protection exclusions, put a hole in OFDM spectrum to allow other systems to operate within that spectrum
2. Band Edge Exclusion to narrow EPoC bandwidth
3. One subcarrier is bad and we do not want to use it

Discussed #3

Today we null a full QAM channel. If there is very narrowband noise should it be handled by interleaver and FEC, or by exclusion subband?

If bit loading is used then something has to be sent once in a while some signal, to see if the subcarrier is still bad. This is called a probe. There is no probing in exclusion subbands.

Bit loading is different than an exclusion subband.

Q: Would you ever use an exclusion subband to address ingress or a “suck out?”

A: It is not the primary use of an exclusion subband but it could be used for that purpose. It could be also handled by bit loading. I do not think exclusion subbands should be used to micromanage the spectrum.

Attendance

Person	Affiliation
Venkat Arunarthi	Cortina
Edward Boyd	Broadcom
Hesham ElBakoury	Huawei
Jim Farmer	Aurora Networks
Marek Hajduczenia	ZTE
George Hart	Rogers
Bill Keasler	Ikanos
Mark Laubach	Broadcom
Leo Montreuil	Broadcom

Bill Powell	Alcatel Lucent
Saif Rahman	Comcast
Steve Shellhammer	Qualcomm
Joe Solomon	Comcast