RF Spectrum Ad Hoc Opening Report

Steve Shellhammer (Qualcomm)
March Task Force Motions

- TF passed the following motions at March Plenary
  1. The granularity for setting the Center Frequency (fc) of the 192 MHz OFDM Channel, in both US and DS, shall be 1 MHz.
  2. The EPoC PHY shall be capable of communicating an upper bound of the RF spectrum of at least 5 GHz.
  3. Downstream and upstream exclusion sub-bands within an OFDM channel can be configured in both the CLT and CNU by MDIO.
  4. Downstream and upstream exclusion sub-band configuration in an OFDM channel can be communicated from the CLT to the CNU over the PHY Link Channel.
  5. The PHY will have a number of MDIO registers to report on subcarrier or subcarrier group, signal parameters including quality.
  6. The minimum contiguous downstream spectrum with no internal exclusion sub-bands shall be 24 MHz. This does not preclude nulled subcarriers which do not carry information.
Conference Calls

- The RF Spectrum Ad Hoc conference calls
  - Tuesdays
  - 2-3 PM Eastern Time

- Calls held since March Plenary
  - March 26
  - April 16
  - April 23
  - April 30
  - May 7

- Minutes sent to email reflector
Summary of Calls

- **March 26**
  - Discussed and straw polled the number and minimum width of exclusion subbands

- **April 16**
  - Exclusion Band Feedback - Edwin Mallette (Bright House Networks)

- **April 23**
  - Discussed and straw polled the definition of an Exclusion subband

- **April 30**
  - Tutorial on Task Force eStraw Poll Tool (Mark Laubach)
  - Prepared two eStraw Polls for TF

- **May 7**
  - Discussion on TDD Bandwidth Needs (Saif)
Straw Polls

- March 26
- Straw Poll #1
  - The granularity for setting the location and width of downstream exclusion sub-bands should be,
  - 2 MHz 0
  - 1 MHz 1
  - 500 kHz 0
  - 200 kHz 1
  - 50 kHz 3
  - 25 kHz 0
  - Other 0
  - Abstain 5
Straw Polls

- March 26
- Straw Poll #2
  - The maximum number of separate downstream exclusion sub-bands should be,
    - 4: 0
    - 6: 0
    - 8: 7
    - 16: 0
    - Other: 0
    - Abstain: 1
Straw Polls

- April 23
- Definition
  - Exclusion Subband: A set of adjacent subcarriers indexed \([m, m+1, m+2, \ldots, m+k-1]\), which are configured via MDIO to have zero amplitude.

- Straw Poll
- Do you support the above definition?
  - Yes  |  11 |
  - No   |   1 |
eStraw Poll #rfspectrum_1

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

- Do you support the above definition for the term "exclusion subband"?

- Vote type: Single answer selection per voter.

- Summary of votes per answer (percent of total):
  - 0) Yes: 8 (100.0%)
  - 1) No: 0 (0.0%)
  - 2) Abstain: 0 (0.0%)
  - Total votes = 8
Downstream Exclusion Subbands Question:

- Do you support the following statements?
  - The standard should support a maximum number of 8 separate downstream exclusion subbands.
  - The standard should support a maximum number of 6 internal exclusion subbands.

- Vote type: Single answer selection per voter.

Summary of votes per answer (percent of total):

- 0) Yes: 7 (87.5%)
- 1) No: 1 (12.5%)
- 2) Abstain: 0 (0.0%)
- Total votes = 8
Plan for the week

- Straw Poll items we did not get to in March
- Task Force Motions on straw polls with good consensus
Backup – Open Straw Polls
Straw Poll #m

- The granularity for setting the location and width of downstream exclusion sub-bands should be
  - 2 MHz
  - 1 MHz
  - 500 kHz
  - 200 kHz
  - 50 kHz
  - 25 kHz
  - Other
Straw Poll #(m+1)

- The FDD downstream lower frequency band edge supported by the PHY should be
  - 85 MHz
  - 108 MHz
  - 120 MHz
  - 240 MHz
  - 300 MHz
  - 550 MHz
  - Other
  - Don’t know
Straw Poll #(m+2)

- The FDD downstream upper frequency band edge supported by the PHY should be
  - 1.0 GHz
  - 1.2 GHz
  - 1.8 GHz
  - 3.0 GHz
  - Other
  - Don’t know