

# RF Spectrum Opening Report

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# Conference Calls

- The Ad Hoc conference calls
  - Tuesdays
  - 2:00-3:00 PM Eastern Time
- Calls since January Interim
  - January 29
  - February 12
  - February 19
  - March 5
  - March 12
- Minutes sent to email reflector

# Discussion Topics

- Discussed configuration of exclusion subbands through MDIO and PHY Link Channel (PLC)
  - Held Straw Polls
- Discussed Frequency Bands
  - Held Straw Polls (Thanks to Duane)
- Discussed Exclusion subbands
  - Held Straw Polls (Thanks to Duane)

# Configuration Straw Polls

## Straw Poll #1

- Downstream and upstream exclusion sub-bands are to be configured in both the CLT and CNU by MDIO
- Yes            11
- No             0
- Abstain      0

## Straw Poll #2

- The downstream and upstream exclusion subband configuration can be communicated from the CLT to the CNU over the PHY Link Channel
- Yes            10
- No             1
- Abstain      0

# Configuration Straw Polls (cont.)

## Straw Poll #3

- The PHY will have a number of MDIO registers to report on subcarrier, or subcarrier group, signal quality
- Yes            11
- No             0
- Abstain      0

# Center Frequency Straw Poll

## Straw Poll #4

- The granularity for setting the Center Frequency (fc) of the RF Channel should be:

• 8 MHz	0
• 6 MHz	0
• 2 MHz	2
• 1 MHz	8
• 500 kHz	0
• 200 kHz	0
• Undecided	1

# Communication of Upper Bound of Operating Frequency

## Straw Poll #5

- The system should be capable of communicating an upper bound of the RF spectrum of:
  - 1 GHz                    0
  - 1.2 GHz                 0
  - 1.8 GHz                 0
  - 2.5 GHz                 0
  - 5.0 GHz                 11
  - Other GHz              0

# Upper Bound of Supported RF Spectrum

## Straw Poll #6

- I prefer the minimum upper bound of the RF spectrum supported by the PHY to be:

	TDD	FDD
• 1.0 GHz	2	2
• 1.2 GHz	3	7
• 1.8 GHz	1	1
• 3.0 GHz	0	0
• Other GHz	0	0
• Don't know	5	1



# Lower Bound of FDD RF Spectrum

## Straw Poll #7

- I prefer the minimum Lower bound of the RF spectrum supported by the PHY to be:

	FDD DS
• 85 MHz	2
• 108 MHz	6
• 120 MHz	0
• 240 MHz	0
• 300 MHz	0
• 550 MHz	2
• Other	0.0 MHz
• Don't know	0

# Lower Bound of TDD RF Spectrum

## Straw Poll #8

- I prefer the minimum Lower bound of the RF spectrum supported by the PHY to be:

### TDD (low band)

- |              |   |
|--------------|---|
| • 5 MHz      | 9 |
| • 54 MHz     | 0 |
| • 85 MHz     | 0 |
| • 108 MHz    | 0 |
| • 120 MHz    | 0 |
| • 240 MHz    | 0 |
| • 300 MHz    | 0 |
| • 550 MHz    | 1 |
| • Other MHz  | 0 |
| • Don't know | 1 |

# FDD Downstream Band Edges

## Straw Poll #9

- I support FDD downstream Frequency band edges of 108 MHz & 1200 MHz
- Yes 5
- No 5

# Exclusion Subband Granularity

## Straw Poll #10 (People can vote for as many options as they like)

- The granularity for setting the location and width of DS Exclusion Bands should be
- |           |      |
|-----------|------|
| • 2 MHz   | 7    |
| • 1 MHz   | 9    |
| • 500 kHz | 4    |
| • 200 kHz | 0    |
| • 50 kHz  | 0    |
| • 25 kHz  | 0    |
| • Other   | None |

# Minimum Contiguous DS Spectrum

## Straw Poll #11

- The minimum contiguous DS spectrum should be 24 MHz
- Yes 10
- No 0

# Setting exclusion subbands

## **Straw Poll #12 (People can vote for as many categories as they like)**

I would prefer to set internal exclusion bands by:

- A) Specifying start location and width
  - B) Specifying start location and end location
  - C) Specifying center frequency and width
  - D) Abstain
- 
- A 5
  - B 7
  - C 5
  - D 1

# Maximum number of exclusion subbands

## Straw Poll #13

- 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

# Minimum exclusion subband width

## Straw Poll #14

- The minimum width (MHz) 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



## Next Steps

- Aggregate the consensus from these straw polls into several motions to be considered by the Task Force