

Cisco/UDel Meeting Minutes  
April 21, 2016

Attendees: Jim Seymour, Len Cimini, Chien-Chung Shen, Li Li  
Minutes Taken By: Li Li

#### A. Review slides and discussion

##### Slides #2 – Discussion of Proposal 2016

- Jim: Standalone LAA is about the MuLTEfire stuffs, and we may also want to study the exchange of control signals in unlicensed band with listen before talk
- Jim: 802.11ax may be based on OFDMA, and this may introduce some interesting aspects for the whole coexistence issues with LAA or even with some legacy 801.11a/n/ac.
- Jim: For the multi-user beamforming, it is not necessarily to be multi-user. In 5G, one of the challenges of millimeter wave in 60 GHz is the coverage. In IEEE 802.11ay, Wi-Fi also works on 60 GHz band, and currently focus on short range, for example, 30 meters. Maybe we can also use beamforming to extend the coverage.

##### Slides #3-4 – Two papers related to our work: RTS/CTS, dynamic sensitivity control for 802.11ax

- Jim: They can work as references, and we are working on more general things.
- Li: If both 802.11ax and LAA support adaptive ED, maybe the system performance can be further improved.

##### Slides #9-11 – Adaptive energy detection: update LAA EB per base station.

- Li: Updating LAA EB per base station can also improve the performance, but not as much as that of updating LAA EB per UE.

#### **Actions Items:**

- **Working on the paper about adaptive energy detection algorithm.**
- Working on the adaptive energy detection algorithm per base station.
- **Working on the potential stuffs in the new proposal.**

Next meeting: Friday May 13 1:15 - 2:15 pm (EST)