IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EHT SG Teleconference Minutes, November 2018 | | | | |
| Date: 2018-12-05 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Dennis Sundman | Ericsson AB |  |  | dennis.sundman@ericsson.com |
|  |  |  |  |  |

Abstract

This document contains minutes from the telephone conference held 10:00 – 12:00 (ET) the 29th of November 2018.

# Minutes

1. Dennis Sundman (Ericsson) appointed secretary.
2. Call for potentially essential patents: Nobody speaks up.
3. Introductions
   1. I am Michael Montemurro affiliated with Blackberry.
   2. Send your attendance to Mikes gmail address.
   3. Around 70 people on the call (guess many duplicates due to both phone and computer).
   4. Registered attendees:
      1. Michael Montemurro (BlackBerry)
      2. Dennis Sundemin (Ericsson)
      3. Sigured Schelstraete (Quantenna)
      4. Joe Levy (Interdigital)
      5. Rui Tang (Interdigital)
      6. Kasuto Yano (ATR)
      7. Albert Bredewoud (Broadcom)
      8. Paul Strauch (Cypress)
      9. Brian Hart (Cisco)
      10. Stephan Baron (Canon)
      11. Patrice Nezou (Canon)
      12. George Cherian (Qualcomm)
      13. Gaurav Patwardhan (?)
4. Contributions. Mike: Limit the contributions to 15 minutes each.

# Contributions

1. "EHT Potential Enhancement Discussion", 11-18/1904 -- Yonggang Fang (ZTE TX)  
     
   **Summary:** Discusses the potential operation bands (2.4, 5, 6-7.125 GHz). Backward compatibility. Enhancement areas: multi-band, coordinated multi-ap on multi-band. Discussion on how this may be.  
     
   No time for questions.
2. "An evaluation of 802.11 error-correcting codes", 11-18/1948 -- Sigurd Schelstraete (Quantenna Communications)  
     
   **Summary:** Summarizes the history of codes in 802.11. There is a gap to the Shannon limit, both the unconstrained and constrained. The codes work quite well, but improvements are possible. Quantenna wants to study FEC in EHT.
3. "Overview of Full Duplex over Multi-Band (FD-MB) for EHT", 11-18/1008r0 -- Insung Jang (LG Electronics)  
     
   **Summary:** Discuss separation between the bands (FDD). Discussion on operation between bands "mutual cooperation between bands", for example retransmission can happen on another channel.  
     
   **C (Comment/Question):** You call this full duplex (FD), but FD in my mind is that the full channel is used. Is this not rather frequency division duplex (FDD)?  
     
   **C:** On slide 12, is there no synchronization between uplink and downlink on the channels? We can talk about it offline.
4. "HARQ for EHT -- Further Information", 11-18/1955r0 -- Shimi Shilo (Huawei)  
     
   **Summary:** This is a follow-up from a previous presentation, and they want to reply to some comments and provide updated results. In their slide 4 they show gains 2-4 dB. However, the HARQ cases are not necessarily fair due to that they entail retransmissions. Retransmitting only failed codewords.  
     
   **C:** Clarification on slide 4, IR-HARQ is worse than Chase-HARQ, but on slide 6 it is reversed.  
   **A (Answer):** The axis is not the same. IR provides higher throughput since the packet duration is shorter.  
     
   **C:** On slide 4 you mention that the comparison is not fair because of the retransmission. So, none of the curves are comparble since different information is retransmitted.
5. "Discussion on HARQ for EHT", 11-18/1963 -- Bo Sun (ZTE)  
     
   **Summary:** Brings upp challenges with HARQ for unlicensed: identify why failed, interference or collision? Lifecycle for the HARQ cycle. Use Multi-AP to reduce interference and collision between OBSS.

meeting adjourned.

**References:**