IEEE P802.11  
Wireless LANs

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| Minutes of the IEEE 802.11ax Spatial Reuse ad hoc group meeting – Dallas, November 2015 | | | | |
| Date: 2015-09-18 | | | | |
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Abstract

This document contains the minutes of the November 2015 meeting of the IEEE 802.11ax Spatial Reuse ad hoc group held in Dallas.

**PM1 - Tuesday 13:30 November 10, 2015**

PM1 Session was chaired by Guido Hiertz (Ericsson).

Chair called the meeting to order at 13:30.

Chair went through the agenda.

Chair reviewed agenda, asked for objection. None noted.

There were 82 attendees including 3 co-chairmen during PM1 SR ad hoc session (checked at 14:40)

**15/1348r0, Multiple NAVs for spatial reuse**

Presenter: Sigurd Schelstraete (Quantenna)

Sigurd reviewed document 15/1069r1

Comment: Need to consider complexity for the gain of multiple OBSS NAVs

Response: slide 5 shows the benefits with 2 OBSSs

Question: Complexity on the STA side

Response: Ways to reduce complexity in the presentation. But complexity is not a worry for such a feature.

Question: Another presentation on this topic. Not so easy to draw the line between intra-BSS and inter-BSS. And not sure we need more than 2 NAVs.

Question: Simpler solution is possible. Especially as it is a corner case (piggy in the middle)

Question: once we have SR, shouldn’t we not use NAV at all, to desynchronize the different BSSs.

Response: depends also on the level of RSSI from the received OBSS packet. You may ignore the NAV or respect the NAV

Straw Poll 1 –

* **Do you agree to add the following text in SFD:** 
  + An HE STA should have a mechanism to remember and distinguish NAVs set by intra-BSS frame and OBSS frame. A CF-end frame that comes from intra-BSS (OBSS) should not reset NAV that was set by a frame from OBSS (intra-BSS). To determine which BSS is the origin of a frame, the HE STA may use BSS color.

Question: can we delay strawpoll 1 after another presentation.

* 1. Yes: 30
  2. No: 0
  3. Abstain 14

-🡪 passes

Propose to rewrite the text of the motion.

Strawpoll 2

* **Do you agree to add the following text in SFD:**
* An HE STA should have a mechanism to remember and distinguish NAV values set by frames from different BSSs. A CF-end frame that comes from one BSS should not reset NAV that was set by a frame from another BSS. To determine which BSS is the origin of a frame, the HE STA may use BSS color.

Clarification: this contains the other strawpoll

* 1. Yes: 12
  2. No: 16
  3. Abstain: 18

-🡪 fails

**15/1259r1, Use of TG ax Scenarios for Spatial Reuse**

Presenter: Graham Smith (SR Technologies)

Comment: missing point is the presence of mobile AP

Comment: depending on the load, fixed bandwidth can be dynamicly changed

Straw Poll 1 –

* **Do you agree that when evaluating Spatial Reuse technologies the channel allocations should be allowed to be varied along the lines indicated in this document, rather than only use the fixed assignments as specified in the Simulation Document?**
  + Yes: 20
  + No: 0
  + Abstain: 30

**15/1284r0, Simulation results for spatial reuse in 11ax**

Presenter: Jinmin Kim(LG)

Question: can you explain the choice of your CCA levels?

Question: how would that behave when there are more traffic in UL?

**15/1316r3, DSC calibration results with NS-3**

Presenter: Eduard Garcia-Villegas (UPC)

Question: do you reduce by 5dB?

Response: somehow (for the effect of shadowing).

**15/1336r1, BSS Color Field Size Measurements**

Presenter: Chuck Lukaszewski (Aruba, a HP Enterprise Company)

Question: in a managed network, how to assign colors?

Response: in a managed environment, the colors would be assigned intelligently. Overlapping collision domain

Question: problem of cooperation between management systems in the same place

Response: signalling between APs, or threshold above which we can reuse the colors could be defined

Question: if it’s managed, there could be ways to deal with that.

Question: wonder about the complexity of dealing with such a high number of BSS colors.

Strawpoll

* **Do you support to assign 8 bits for BSS Color?**
  + Yes: 11
  + No: 16
  + Abstain: 28