IEEE P802.11
Wireless LANs

|  |
| --- |
| Dutration field in BF |
| Date: 2016-07-27 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Solomon Trainin | Intel |  | 972547885738 | solomon.trainin@intel.com |
| Carlos Cordeiro | Intel |  |  | carlos.cordeiro@intel.com |
| Assaf Kasher  | Qualcomm |  |  | akasher@qti.qualcomm.com |
| Payam Torab | Broadcom |  |  | payam.torab@broadcom.com |

Abstract

CID8040 is dicusssed and resolution proposed

*Discussion:*

*In the definition of the BF procedure there are places that can be seen as contradicting each other. The intention of the text referred below (P1508L32) and (P1519L61) is to allow continuation of following BF phase immediately after previous phase and that the word allocation means the interval of the entire BF. It is not completely clear that the allocation is not covered by duration of BF frames as defined in 9.3.1.16, 9.3.1.17, 9.3.1.18.*

(P1508L32)

“For BF training that occurs during an SP allocation, the source DMG STA of the SP is the initiator and the destination DMG STA of the SP becomes the responder. For BF training during a CBAP allocation, the TXOP holder is the initiator and the TXOP responder is the responder.”

(P1519L61)

When the beam refinement occurs within the same allocation as the SLS, the SLS initiator is the beam refinement initiator. If the beam refinement occurs in a separate allocation, the STA that transmits the first beam refinement request is the beam refinement initiator. The other STA is the beam refinement responder.

*To make BRP happen in the same allocation with SLS as defined above the BRP shall start MBIFS after completion of SSW feedback/ack phase that is not defined*

 Proposed changes:

**10.38.1 General**

***Editor: add at end of paragraph at P1508L36***

For BF training during a CBAP allocation, the TXOP holder is the initiator and the TXOP responder is the responder and the value of the Duration field in the transmitted BF frames does not limit the duration of the BF training procedure. The duration of the BF training procedure is specified in 10.38.6.2 and 10.38.6.4.

**9.3.1.17 Sector sweep feedback (SSW-Feedback) frame forma**

***Editor: modify P613L-10***

The Duration field is set to 0 when the SSW-Feedback frame is transmitted within an association beamforming training (A-BFT).When transmitted within a DTI, the Duration field is set to one of the following:

1. If a BRP phase is requested through the BRP Request field, the Duration field is set to the time, in microseconds, required to transmit an SSW-Ack frame plus 2xMBIFS (10.38.3.1 General)
2. If a BRP phase is not requested, the Duration field is set to the time, in microseconds, required to transmit an SSW-Ack frame, plus MBIFS (10.38.3.1 General) or the time until the end of the current allocation, whichever comes earlier.

**References:**

IEEE P802.11-REVmc/D6.0, June 2016