IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Resolution to Comments : CID 1269, 1486 | | | | |
| Date: 2018-07-12 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Yan Xin | Huawei Technology | Suite 400, 303 Terry Fox drive,  Kanata, ON, Canada | +1 613 9791792 | yan.xin@huawei.com |
|  |  |  |  |  |

Abstract

This document presents suggested resolutions related to CIDs 1269 and 1486 for P802.11ay\_D1.0.

***Modify the following definition into 10.3.1 as highlighted in red texts:***

* STA authentication and association

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause Number (C)** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 1269 | 10.38.5.2 | 153.11 | operations during the A-BFT allocated over a secondary channel are missing. | add operation during the A-BFT allocated over a secondary channel. | Accept |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause Number (C)** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 1486 | 10.38.5.1 | 152.19 | What if two different STAs transmit at the same time, one on the primary, one on the secondary during the A-BFT? How the the AP/PCP supposed to deal with this case? It would seem to involve a lot of complexity to try to receive both packets simultaneously. | Add specific language to describe what the AP/PCP is requried to do while receiving SSW (or short SSW) packets from two different STAs, one on primary one on secondary. | Accept |

***Discussion:***

As defined in A-BFT in Secondary Channel subfiled in Sec. 9.3.4.2 [1], the A-BFT of an EDMG STA can be present on either the primary channel or a secondary channel. The proposed text below is to clarify the A-BFT operations when A-BFT is allocated on a secondary channel.

***Proposed text changes***

*Editor: insert a paragraph as follows after page 40, line 10 [1]*

If the A-BFT in Secondary Channel subfield is set to non-zero, an EDMG AP or PCP shall be capable of simultaneously receiving the SSW frames transmitted by the EDMG STAs on the primary and adjacent secondary channels and shall be capable of simultaneously transmitting SSW-Feedback frames on the primary and adjacent secondary channels.

*Editor: Change the eighth paragraph of 10.38.5.2 in [2] as follows.*

For a non-EDMG AP or PCP or the A-BFT in Secondary Channel subfield is set to zero, ~~T~~the initiator shall initiate an SSW feedback procedure to a responder (10.38.2.4) at a time such that the beginning of the first symbol of the SSW-Feedback frame on the WM occurs at aSSFBDuration + MBIFS before the end of the SSW slot. If the A-BFT in Secondary Channel subfield is set to non-zero and an EDMG AP or PCP received SSW frames transmitted from different EDMG STAs on the primary channel and an adjacent secondary channel, which carry the same Sector ID and the same DMG Antenna ID, the initiator shall initiate an SSW feedback procedure to a responder (10.38.2.4) on the primary channel and an adjacent channel at a time such that the beginning of the first symbol of the SSW-Feedback frame on the WM occurs at aSSFBDuration + MBIFS before the end of the SSW slot. If the A-BFT in Secondary Channel subfield is set to non-zero and an EDMG AP or PCP received SSW frames transmitted from different EDMG STAs on the primary channel and an adjacent secondary channel, which carry different Sector IDs and/or different DMG Antenna IDs, the initiator shall initiate an SSW feedback procedure to a responder (10.38.2.4) on the primary channel at a time such that the beginning of the first symbol of the SSW- Feedback frame on the WM occurs at aSSFBDuration + MBIFS before the end of the SSW slot, and shall postpond to initiate an SSW feedback procedure to a responder on an adjacent secondary channel at a time such that the beginning of the first symbol of the SSW-Feedback frame on the WM occurs at aSSFBDuration + MBIFS before the end of the next available SSW slot. A responder that transmitted at least one SSW frame within an SSW slot shall be in quasi-omni receive mode for a period of aSSFBDuration ending MBIFS before the end of the SSW slot. The initiator may initiate an SSW feedback procedure to the responder at an SSW slot even if the responder did not complete RSS within that SSW slot. If the initiator transmits an SSW-Feedback under this circumstance, it can transmit an Announce frame to the responder in an ATI. Following the reception of the Announce frame, the responder can respond with an SPR frame requesting time for the responder to continue with the RSS. Alternatively, the responder can transmit an SPR frame to the AP or PCP in accordance with the channel access rules.

**References**

1. Draft P802.11ay\_D1.0.
2. P802.11-2016.