IEEE P802.11
Wireless LANs

|  |
| --- |
| CR for 29.4 |
| Date: 2019-08-20 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Woojin Ahn | WILUS | 216, Hwangsaeul-ro, Seongnam-si, Gyeonggi-do, Korea | +82-31-712-0523 | woojin.ahn@wilusgroup.com |
| John Son | john.son@wilusgroup.com  |

Abstract

This submission proposes resolutions for comments related to TGba D3.0 with the following CIDs (4 CIDs):

* 3077, 3117, ~~3154~~, 3209

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Minor editorial changes
* Rev 2: CID 3154 deferred
* Rev 3: CID 3154 resolved

***Editing instructions formatted like this are intended to be copied into the TGba Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGba Editor: Editing instructions preceded by “TGba Editor” are instructions to the TGax editor to modify existing material in the TGba draft. As a result of adopting the changes, the TGba editor will execute the instructions rather than copy them to the TGba Draft.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 3077 | Graham Smith | 106.34 | This appears to lay down a lot of conditions when the CCARESET is issued but not when it is not issued. What happens if any of these is not met? It requires an "otherwise" statement | Add what happens otherwise. | REJECTEDAs defined in 30.3.15 (WUR receive procedure), the PHY shall keep decoding until receive signal strength drops significantly. |
| 3117 | Jeongki Kim | 106.41 | When a WUR non-AP STA is in the awake state as well as the doze state and the STA receives a WUR frame, the WUR non-AP STA should be able to filter the PPDU (i.e., issue a PHY-CCARESET.request primitive) if one of the indicated conditions is met. Therefore, delete the "if the WUR non-AP STA is in the doze state" in the sentence. | Remove the "if the WUR non-AP STA is in the doze state" in the sentence. | REJECTEDIf the WUR MAC issues CCARESET while the STA is in awake state, it risks that an ongoing OFDM PPDU reception is cancelled or an existing NAV is cancelled. On the other hand, the benefit of the proposal is small, because a WUR STA is expected to be in doze state for much longer time than awake state, if the STA uses WUR mode. If a STA enters awake state frequently, then it is better to use WUR Suspend mode. |
| 3154 | Joseph Levy | 106.40 | A WUR non-AP STA that is in doze state is in Power Management mode, not in WUR mode. Please clarify that the actions/restrictions below are perinate to a WUR non-AP STA that is in WUR awake state. As that is the only time when a WUR non-AP STA will receives WRU PPDUs. | "Replace: ""If the PHY of a WUR non-AP STA issues a PHY-RXSTART.indication due to a WUR PPDU reception, then the MAC sublayer of the WUR non-AP STA should issue a PHY- CARESET.request primitive before the end of the WUR PPDU if the WUR non-AP STA is in the doze state, and the data transferred from the PHY contains any of the followings:"" With: ""If the PHY of a WUR non-AP STA in WUR awake state issues a PHY-RXSTART.indication due to a WUR PPDU reception, then the MAC sublayer of the WUR non-AP STA should issue a PHY- CARESET.request primitive before the end of the WUR PPDU if the data transferred from the PHY contains any of the followings:" | REJECTEDWUR STA can use both Power Management mode and WUR mode. The cited sentence is a normative behavior for a WUR STA that is in doze state of Power Management mode and WUR awake state in WUR mode.Also it is not necessary to state that the non-AP STA is in WUR awake state, because receiving a WUR PPDU implies that the STA is in WUR awake state. No change is required. |
| 3209 | Michael Montemurro | 106.41 | If a WUR capabile STA transition from the awake to the doze state, there is no way for the WUR capable AP to determine whether to use legacy power-save mechanisms or WUR to maintain state. | Provide a normative statement or a protocol mechanism to allow a WUR STA and a WUR AP to negotiate WUR powersave. It could be as easy as, adding a statement that when a WUR STA associates to a WUR AP, the WUR AP and WUR STA use WUR frame exchanges to maintain synchronization. | REJECTEDUpon a successful exchange of WUR Mode request/response frame with the status code "Accept", the WUR AP should use WUR operation for the WUR STA that is expected to be in doze state.The AP can expect a WUR STA to be in awake state when the events defined in 29.8.3 (29.8.3 WUR power management operation for a WUR AP), 29.9.2 (WUR AP operation) and 29.13 (WUR Short Wake-up frame operation) occur or the STA sets the PM bit to 0. No action is required for this comment. |

**Discussion: None**