IEEE P802.11
Wireless LANs

|  |
| --- |
| LB281 Comment Resolutions for Exchange bucket CIDs |
| Date: 2024-03-15 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Ali Raissinia | Qualcomm In. |  |  | alirezar@qti.qualcomm.com |
|  |  |  |  |  |

Abstract

This document provides comment resolutions for CIDs 4285, and 4295 (2-total).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 4285 | 11.55.1.5.2.1 | 143.20 | While it is understandable that the AP needs to make sure that the participating sensing responders in a TB sensing session are present, the requirement for polling in each NDPA sounding exchange is disadvantageous from a power efficiency perspective and for privacy reasons. It should be sufficient to have a requirement that the AP STA shall poll sensing responders once per expiry period if they are not assigned to be polled and not asked to provide reports. | As in comment | RejectPolling phase is part of the TB sensing measurement exchange and not part of NDPA sounding! Polling phase enables AP not only to verify the presence of the sensing responder during the Sensing Availability Window (S-AVW) as to manage the MS expiry timer, but also to ensure that the assigned resources for NDPA sounding is actually being utilized (a required inquiry for each TB measurement exchange). As commenter might be aware the inclusion of polling phase is AP’s decision regardless of responder’s request. Essentially, spec considers an efficient utilization of NDPA sounding as priority over the responder’s “incremental” power save since responder must already be awake and ready to receive/participate in NDPA sounding not knowing when it would occur.  |
| 4295 | 11.55.1.5.2.1 | 143.20 | In TB sensing mode, NDPA sounding which doesn't need reporting cannot be done without a polling phase. Removing the polling phase requirement can result in a low power mechanism to do sensing at the non-AP STA side. The polling phase is not needed for each sensing PPDU for the AP to make sure the STA is present during the availability windows. Since there is a requirement for sensing activity every session expiry period, a polling response can be required once every session expiry time period. | Allow a TB session to consist of only NDPA sounding phase. In order for the AP to make sure the STA is present, a polling response can be required once in measurement session expiry time period. | RejectPolling phase is part of the TB sensing measurement exchange and not part of NDPA sounding! Polling phase enables AP not only to verify the presence of the sensing responder during the Sensing Availability Window (S-AVW) as to manage the MS expiry timer, but also to ensure that the assigned resources for NDPA sounding is actually being utilized (a required inquiry for each TB measurement exchange). As commenter might be aware the inclusion of polling phase is AP’s decision regardless of responder’s request. Essentially, spec considers an efficient utilization of NDPA sounding as priority over the responder’s “incremental” power save since responder must already be awake and ready to receive/participate in NDPA sounding not knowing when it would occur.   |

**References: IEEE P802.11bf D4.0**