IEEE P802.11
Wireless LANs

|  |
| --- |
| Comment Resolution 5.2.3.2 |
| Date: 2020-08-12 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Liwen Chu | NXP |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This submission resolve the following comments for subclause 5.2.3.2 of 802.11bd D1.0:

* 1204, 1270, 1272, 1273, 1369, 1550, 1839

Revisions:

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGax Draft. This introduction is not part of the adopted material.

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 1204 | 19 | 33 | The radio environment request and status vectors are specified to be parameters in the MA-UNITDATA.request and .indication primitives respectively. In both cases the vector is to be included if and only if dot11NGVActivated is true. There are elements of these vectors that are useful even for legacy 802.11p OCB operation. It should be permitted to include these vectors when dot11OCBActivated is true, even if dot11NGVActivated is false. In the case of a non-NGV STA using OCB, not all of the vector arguments will be used. The IEEE 1609 WG was originally told that these vectors could be used for any OCB communication, not just NGV | On line 33 and on line 64 change "dot11NGVActivated" to "dot11OCBActivated" | Accepted |
| 1270 | 19 |  | Comment from TGbd ARC meeting:Why is Radio Environment done via MA-UNITDATA and not a via a management interface? Is each MSDU intended to have a unique Radio Environment? | Justify the use of radio parameters on a per MSDU basis. | RejectedDiscussion: the Radio Environment includes the per MSDU parameters and they are different based on the recipients, e.g. MCS, Nss, channel width. As OCB operation, the operating parameters of the recipients, e.g. BW are acquired from up layer. |
| 1272 | 19 | 24 | Comment from TGbd ARC meeting:How is the reception of frames expected to work, when MA-UNITDATA.requests change the radio parameters. | Explain how the radio environment request vector information configures the radio parameters and how reception on a channel is controlled | RejectedDiscussion: the radio parameters are provided per the capabilitites of the recipient. |
| 1273 | 19 |  | Comment from TGbd ARC meeting:Clarify that the new radio environment request vector is for OCB operation only. | Clarify that the radio environment request vector is for OCB operation only. | RevisedSee the proposed changes of CID 1204. |
| 1369 | 19 | 24 | The radio environment vectors seem to be a control plane concept, and not appropriate in the MAC SAP. With very few exceptions, the MAC SAP should match the expected service from all 802 MACs, per 802 specifications, and that service is designed to be focused on peer entity exchange of MSDUs per the 802 architecture model. Note that the data plane (which is what invokes the MAC SAP) has no knowledge of concepts such as these radio parameters. The specific details to accomplish the MSDU delivery over a particular medium/technology should be handled via management plane interfaces specific to that technology. | Move the concept of the radio environment request/status vectors in all the MAC SAP primitives to be in the MLME interface and the management plane. | RejectedDiscussion: the Radio Environment includes the per MSDU parameters and they are different based on the recipients, e.g. MCS, Nss, channel width. As OCB operation, the operating parameters of the recipients, e.g. BW are acquired from up layer. |
| 1550 | 19 | 30 | Three changes are suggested in this line; change "control" to "configure," change "encoding" to "MCS," and add "PPDU" as shown "The radio environment request vector contains information that allows higher layer entities to configure the PPDU format, MCS, and MPDU handling for NGV transmission." | As in the comment. | RevisedDiscussion: it is ok to change"control" to "configure".The encoding includes MCS, Nss etc.TGbd editor to make changes under CID 1550 as shown in 11-21/0420r1 |
| 1839 | 19 | 25 | Clause 5 specifies the MAC services for the user plane data. Adding the radio environment request vector in MA-UNITDATA.request (and the similar status vector in similar .indication primitives) means these control information are needed for every MSDU transaction. Is that neccessary? If not neccessary for every MSDU, consider to specify the use of these control information in Clause 6, i.e., as a part of MLME. | Remove the added "vector" parameter from MA-UNITDATA.request, MA-UNITDATA.indication, and MA-UNITDATASTATUS.indication. Specify the use of them in new MLME primitives in Clause 6. | RejectedDiscussion: the Radio Environment includes the per MSDU parameters and they are different based on the recipients, e.g. MCS, Nss, channel width. As OCB operation, the operating parameters of the recipients, e.g. BW are acquired from up layer. |

**5.2.3.2 Semantics of the service primitive**

***TGbd editor: change 5.2.3.2 as follows (no change are pplied to the text not shown):***

……

(#1150)The radio environment request vector contains information that allows higher layer entities to configure the PPDU

format, encoding, and MPDU handling for NGV transmission. This parameter shall be present when

dot11NGVActivated is TRUE and absent otherwise.