IEEE P802.11
Wireless LANs

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| Initial SA ballot comments – SBP and OST comments |
| Date: 2024-08-11 |
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**Abstract**

This document proposes the resolutions to the following CIDs:

6045 (1 in total)

R0: initial version on Aug 11, 2024.

R1: revised version on Aug 27, 2024. Refined justifications.

R2: revised version on Aug 27, 2024. Corrected version number in the URL.

R3: remove CID 6005.

# 6045

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** |
| 6045 | 11.55.2.2 | 171.13 | The SBP procedure may be unnecessarily compliacted due to the inclusion of the Preferred Responder Role Bitmap and can be simplified. According to current specifications, a single field determines if responders must send sensing measurement reports. This filed is the Sensing Measurement Report Requested field within the Sensing Measurement Parameters field in the Sensing Measurement Parameters element in the SBP Request frame. As it stands, there's no method to specify if preferred responders (including the SBP responder, i.e., the AP) need to send these reports to the SBP initiator without dividing the preferred responders into at least two groups and conducting two SBP sessions. For instance, SBP responders could be divided into one group of transmit-only responders, another group of receive-only responders who do not need to send reports, and a third group of receive-only responders who are required to send reports. This approach allows the Sensing Transmitter and Sensing Receiver fields in the Sensing Measurement Parameters field in the the Sensing Measurement Parameters element to adequately specify the role of all responders in each group (and each SBP Request). Additionally, certain scenarios (DCN: 11-24/464r0) prevent some roles from being assigned to preferred responders, specifically the combined role of sensing transmitter and receiver. Only sensing transmitter or sensing receiver roles are permitted. Therefore, we can simplify the SBP procedure by eliminating the Preferred Responder Role Bitmap field and the Preferred Responder Role Bitmap Present field and all associated specification. | Simplify the SBP procedure by eliminating the Preferred Responder Role Bitmap field and the Preferred Responder Role Bitmap Present field and all associated specification from the latest 11bf draft. |

**Proposed resolution: Rejected**. Please refer to the rejection reasons in DCN 24/1428r3: <https://mentor.ieee.org/802.11/dcn/24/11-24-1428-03-00bf-initial-sa-ballot-comments-sbp-and-ost-comments.docx>

**Rejection reasons:**

Based on the comment, the commenter mainly has 2 concerns:

1. There isn’t an efficient way to indicate the need to send the measurement report for each sensing responder that is assigned either a: sensing receiver role or sensing transmitter and sensing receiver role;
* Rejection reason: This reporting issue (that is “a single field determines if responders must send sensing measurement reports”) is not caused by introducing the Sensing Responder Role Bitmap. Using the Sensing Responder Role Bitmap is one of the two methods to assign roles to the sensing responders in an SBP. Even with the Sensing Responder Role Bitmap feature disabled, when the SBP initiator uses the Sensing Receiver field in the Sensing Measurement Parameter element to assign a sensing receiver role to sensing responders, this reporting issue claimed in the comment still exists. It is not fair to tie this reporting issue with the Sensing Responder Role Bitmap feature, so, this argument is not a valid reason to delete this feature.
1. The introduction of the Sensing Responder Role Bitmap may bring unnecessary complexity to the SBP procedure.
* Rejection reasons: Having Sensing Responder Role Bitmap does bring some complexity to the SBP procedure, but, this complexity is limited and totally controllable. The SBP initiator can choose to use it or not based on its demands. And, this complexity is not unnecessary in some use cases. Without the Sensing Responder Role Bitmap, the SBP initiator will assign the same role to all sensing responders using a Sensing Measurement Parameter element. If the SBP initiator requests SR2SR, the only option is to set all sensing responders to the transmitter and receiver role to allow SR2SR sounding. Given this role assignment, for those that do not support SR2SR, the SBP responder might perform both NDPA sounding and SR2SI sounding with the same sensing responder. For those that support SR2SR, the SBP responder is likely to trigger each sensing responder to transmit SR2SR NDP and all the other responders will perform measurements. Both cases will result in redundant, repeated and unwanted measurement results. With the Sensing Responder Role Bitmap enabled, the SBP responder will know the direction of SR2SR sounding and reduce the channel occupancy time needed for measurement and reporting.

SP:

Do you agree to the resolutions provided for CIDs 6045 in 24/1428r3 to be included in the latest 11bf Draft?

Y/N/A