IEEE P802.11
Wireless LANs

|  |
| --- |
| SAB2 Phase Shift TOA Feedback CR |
| Date: 2022-08-08 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Erik Lindskog | Samsung | 3655 N 1st St, San Jose, CA 95134 |  | e.lindskog@samsung.com |

Abstract

We are here proposing a resolution to SAB2 CID 8066.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed change** | **Proposed resolution** |
| 8066 | 130.10 | 11.21.6.3.3 | In the curent draft when phase shift feedback is negotiated, then phase shift TOAs are fed back \*in place\* of regular TOAs. The main purpose of using phase shift feedback is to allow for more accurate range calculations. However, there is really no reason to when enabling phase shift feedback to not also feed back the regular TOA. Supplying also the regular TOA can only improve the range measurement. We should therefor change the draft so that when phase shift feedback is negotiated, the modem feeds back both phase shift TOA as well as the regular TOA. It should be noted that this does not add any computational burden as the modem that wants to make use the phase shift feedback anyways has to calculate both its phase shift TOA as well as its regular TOA. We are only saying that it is benefitial to feed back both these measurements. | Change the draft so that when phase shift feedback is negotiated, both phase shift TOA and the regular TOA is fed back by the RSTA. If the ISTA is also feeding back time stamps, then also the ISTA feeds back phase shift TOA and the regular TOA. Also add a separate Dialog Token for the phase shift TOA feedback and associated TOD. | Reject. The comment fails to identify and locate an issue. It fails to identify sufficient level of detail so that specific wording of the changes can be determined. |

**References:**

**[1] Draft P802.11az\_D5.0**