IEEE P802.11  
Wireless LANs

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| LB272 Privacy Comments Resolution | | | | |
| Date: 2023.06.29 | | | | |
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Abstract

This submission contains the proposed comment resolutions for the following CIDs.

2226, 2227, 2228, 2229

R0: initial document

# CID 2226, 2227, 2228, 2229

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 2226 | 9, 11, 12 | 70, 166, 221 | 11bf lacks protection for the sensing NDPs such as secure-LTF in 11az. As a result, the user may expose privacy since the sensing signal may be eavesdropped. A secure transmission mechanism should be introduced in 11bf to protect user privacy. | As in the comment | **REJECTED**  The definition of sensing privacy is not clear and the group did not align on the characterization of privacy problem. As a result, specific changes to the draft could not be determined to address the issue. |
| 2227 | 11.55.1.5.2.5 | 182 | For the sensing case of SR2SR sounding, multi-transmit and single-receive scenario should be introduced to improve privacy preservation and sensing accuracy. | As in the comment | **REJECTED**  The definition of sensing privacy is not clear and the group did not align on the characterization of privacy problem. As a result, the specific solution and corresponding spec changes could not be determined to address the issue. |
| 2228 | 9.4.1.75, 9.4.1.75.2 | 89, 91 | Raw CSI feedback is conveyed by measurement report frame with high payload, which can be compressed by machine learning algorithm reduce the overhead. | As in the comment | **REJECTED**  The definition of sensing privacy is not clear and the group did not align on the characterization of privacy problem. As a result, the specific solution and corresponding spec changes could not be determined to address the issue. |
| 2229 | 11.55.1 | 176 | 11bf did not have multi-AP joint sensing scenario. TGbf should start a discussion on the mulit-AP use case where a STA can perform sensing measurements with 2 APs simultaneously, or in parallel. | As in the comment | **REJECTED**  The definition of sensing privacy is not clear and the group did not align on the characterization of privacy problem. As a result, the specific solution and corresponding spec changes could not be determined to address the issue. |

The comments above are concerns and potential solutions to privacy protection from WLAN sensing perspective. However, the sensing privacy problem must be identified before we talk about its solution. Therefore, discussions on the definition of sensing privacy are needed to draw a conclusion on its necessity and the wayforward.

Though the comments are rejected due to inappropriate timing, the comments provided some basic ideas to preserve user’s privacy provided the problem does exist. We may come back to them in future if necessary. To avoid inefficient online discussion during the meeting, offline technical exchanges are welcomed for these specific solutions to the sensing privacy issue.

Privacy concerns were first presented a long time ago in 11bf and the group did not obtain convergence on them then. Now we note that in some other organizations like 3GPP and WFA, sensing privacy concerns were also mentioned. Hence, now is the time to try some privacy-pertinent discussion.

Here are some initial thoughts regarding the privacy discussion:

1. The highest priority in 11bf is to discuss the definition of privacy issue in the context of WLAN sensing, identifying and characterizing the problem.
2. We may need to determine whether this problem is a 11bf specific problem or a generic problem that is out of scope of 11bf, and decide where we talk about it.
3. The privacy problem may be resolved through MAC or PHY changes. If we need to solve the problem in 11bf, general guidelines are needed for how we treat the PHY changes.
4. The privacy discussion should not slow down the progress of standardization. A solution with radical changes may be not desired. The solution should be carefully designed to be compatiable with the on-going 11bf spec.

# SP

Do you agree to the resolutions provided in this CR for CIDs 2226, 2227, 2228, 2229?

Y/N/A