IEEE P802.11 Wireless LANs

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| Proposed Clarifications for Scan Reports |
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Abstract

This submission proposes clarifications for scan reports, as a proposed resolution to a comment submitted to IEEE 802.11 Working Group Technical Letter Ballot 198 for 802.11ai Draft 1.0.

# Introduction

As a response to IEEE 802.11 Working Group Technical Letter Ballot 198 for 802.11ai Draft 1.0, the following comment is submitted:

***Comment****: line 56 on page 69, Section 10.1.4*

*During scanning, either passive scanning or active scanning, when an MLME-SCAN.confirm primitive is issued to report the scanning result, it can also contain the information collected from Measurement Pilot frames and/or FD frames, in addition to BSSDescriptionSet.*

This contribution proposes a resolution to the above comment.

# Conventions

In this contribution, the proposed 802.11ai Specification Document text will be presented as changes to the current TGai draft specification, 11ai/D1.0[Ref-2]. The following format conventions are used:

1. The new added text is marked as blue underline text;
2. The deleted text is marked as ~~red strikethrough text~~;
3. The unchanged baseline standard text stays in black text in the context of proposed TGai specification text;
4. The editorial instruction is marked as *italic text highlighted by Yellow*; and
5. Any other text, e.g., discussions, proposed motions, etc., is in black text, but not in the context of proposed TGai specification text.

# Discussions of the Proposed Resolution

The proposed resolution is to add the two parameters, BSSDescriptionFromFDSet, and BSSDescriptionFromMeasurementPilotSet, in the descriptions of issuing an MLME-SCAN.confirm primitive. The details are listed in Section 4 of this contribution.

# Proposed Changes to 802.11ai/D1.0 Specification Text

*Instructions to Editor: Change the sentence in line 56 page 69 as follows:*

The MLME shall issue an MLME-SCAN.confirm primitive with the BSSDescriptionSet, BSSDescriptionFromFDSet, and/or BSSDescriptionFromMeasurementPilotSet containing the gathered information since the previous issue of MLME-SCAN.comfirm primitive, or if the primitive has not been issued since the beginning of the scan, having the ResultCode set to SUCCESS.

*Instructions to Editor: Change the paragraph in line 36 page 71 as follows.*

3) If dot11FILSActivated is true in the STA, ReportingOption is IMMEDIATE, and new AP or new information of the AP is detected, issue MLME-SCAN.confirm primitive with the Result-Code equal to INTERMEDIATE\_SCAN\_RESULT and the BSSDescriptionSet, BSSDescriptionFromFDSet, and/or BSSDescriptionFromMeasurementPilotSet containing information of the detected AP;

*Instructions to Editor: Change the paragraph in line 41 page 71 as follows:*

If dot11FILSActivated is true and the ReportingOption is CHANNEL\_SPECIFIC, issue at the time when the Probe Timer reaches the MaxChannelTime an MLME-SCAN.confirm primitive, with the ResultCode equal to INTERMEDIATE\_SCAN\_RESULT and the BSSDescriptionSet, BSSDescriptionFromFDSet, and/or BSSDescriptionFromMeasurementPilotSet containing information of all APs that have been discovered from the scanned channel.

*Instructions to Editor: change the paragraph in line 44 page 72 as follow:*

When all channels in the ChannelList have been scanned, the MLME shall issue an MLME-SCAN.confirm primitive with Resultcode set to SCAN\_SUCCESS and the BSSDescriptionSet, BSSDescriptionFromFDSet, and/or BSSDescriptionFromMeasurementPilotSet containing all of the information gathered during the scan.

*Instructions to Editor: change the sentence in line 52 page 72 as follows:*

The MLME shall issue an MLMESCAN.confirm primitive with the ResultCode set to SUCCESS and BSSDescriptionSet, BSSDescriptionFromFDSet, and/or BSSDescriptionFromMeasurementPilotSet containing all of the information gathered during the scan.

# References

1. IEEE Std 802.11mc/D1.5
2. IEEE Std 802.11ai/D1.0