IEEE P802.11  
Wireless LANs

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| Resolution for CID 4695 | | | | |
| Date: June 19, 2020 | | | | |
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Abstract

This submission proposes resolutions for CID 4695 received for TGm SA Ballot 1:

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Minor editorial
* Rev 2: Added the term ‘specific’ SSID to match 11af

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 TGm Draft. This introduction is not part of the adopted material.

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

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

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| **CID** | **Commenter** | **Pg/Ln** | **Section** | **Comment** | **Proposed Change** | **Resolution** |
| 4695 | Mark Rison |  | 11.50 | 11.50 claims that "The Filtered Neighbor AP subfield in the Neighbor AP Information field shall be set to 1 if the AP determines that the SSID corresponding to every AP in the Neighbor AP Information field matches the SSID of the transmitting AP's BSS; otherwise it shall be set to 0.".  However, 9.4.2.170.2 says that ")When included in a Probe Response frame, it is set to 1 if the SSID corresponding to every BSS of the APs(#2576)(#341) in this Neighbor AP Information field matches the SSID in the (11ai)corresponding Probe Request frame. (11ai)When included in a Beacon or FILS Discovery frame transmitted by a non-TVHT AP, it is set to 1 if the SSID corresponding to every AP(#341) in this Neighbor AP Information field matches the SSID of the transmitting AP's BSS. It is set to 0 otherwise.".  Which is it? | As it says in the comment | **Revised**  Agree with the commenter. There is inconsistency between the text in clause 9.4.2.170.2 and clause 11.50 which needs to be addressed.  During offline discussions with several members affiliated with different companies, it was determined that the Filtered Neighbor AP subfield is not used by non-TVHT STAs. For example, there are no known 802.11ai or 802.11ax implementations that use this bit. In addition, TGax has defined a new bit (Same SSID subfield) which serves the same purpose as Filtered Neighbor AP subfield. The new bit defined by 11ax provides per-AP level granularity and is applicable to a more general scenario (i.e., individually addressed frames such as Probe Response as well as broadcast frames such as Beacon or broadcast Probe Response or FILS Discovery frames). Furthermore, there are implementations that are using the new bit.  Given that there are no other implementation that are using Filtered Neighbor AP bit, the resolution proposes to reserve this bit field for non-TVHT STAs. The revised text restores the meaning of this subfield as originally proposed by the TGaf.  **TGm editor please make changes as shown in doc 11-20/320r2** |

* Neighbor AP Information field

*TGm editor, please make changes to the following paragraph in this sub-clause as showing below*

The Filtered Neighbor AP subfield is 1 bit in length. This subfield is reserved except when the Reduced Neighbor Report element is carried in a Probe Response frame transmitted by a TVHT AP.

In a Probe Response frame transmitted by a TVHT AP, the Filtered Neighbor AP subfield is set to 1 if the specific SSID corresponding to every BSS of the APs in this Neighbor AP Information field matches the SSID in the corresponding Probe Request frame; otherwise it is set to 0.

* Reduced neighbor report

*TGm editor, please make changes to the following paragraph in this sub-clause as showing below*

If the AP is a TVHT AP that transmits a Probe Response frame, the Filtered Neighbor AP subfield in the Neighbor AP Information field shall be set to 1 if the AP determines that the SSID corresponding to every AP in the Neighbor AP Information field matches the specific SSID in the corresponding Probe Request frame; otherwise it shall be set to 0.

NOTE – The Filtered Neighbor AP subfield is reserved when the Reduced Neighbor Report element is transmitted by a non-TVHT AP or by a TVHT AP in a frame other a than Probe Response frame (see 9.4.2.170.2 (Neighbor AP Information field)).