IEEE P802.11
Wireless LANs

|  |
| --- |
| MLO Discovery: ML IE usage rules in the context of discovery |
| Date: 2020-08-20 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Ming Gan | Huawei |  |  |  ming.gan@huawei.com |
| Yunbo Li |  |  |  |  |
| Yuchen Guo |  |  |  |  |
| Guogang Huang |  |  |  |  |
| Yiqing Li |  |  |  |  |
| Hongjia Su |  |  |  |  |
| Mengyao Ma |  |  |  |  |

The Multi-Link element when included in a Beacon or non-ML Probe Response frame should carry only MLD-level/common information.

NOTE: Exact name for the element is TBD.

NOTE: Whether the Multi-Link element is always present in the Beacon and non-ML Probe Response frames or is optionally present is TBD.

NOTE: MLD-Level/Common information includes at least MLD Address, and other information (TBD).

[Motion 119, #SP111, [3] and [96]]

802.11be supports the following:

* An AP that is part of an AP MLD that supports SAE authentication shall include the MLD address in beacon and probe response frames it transmits.
* EHT MLD shall indicate its MLD MAC address during authentication request/response exchange.

[Motion 115, #SP89, [10] and [106]]

1. **Introduction**

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 TGbe Draft. The introduction and the explanation of the proposed changes are not part of the adopted material.

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

1. **Proposed spec text**

***TGbe editor: Insert the new subclause 33.3.2.3 Multi-link element usage rules in the context of discovery as follows:***

**33.3.2 Discovery of an AP MLD**

[Motion 119, #SP111]

**33.3.2.3 Multi-link element usage rules in the context of discovery**

An AP within an AP MLD shall include in the Beacon and non-ML Probe Response frames only the MLD-level/common information field of the multi-link element as defined 9.4.2.x (multi-link element) which is common to all APs affiliated with the AP MLD.

* The MLD-level/common information field includes the MAC address of the AP MLD with which the AP is affliated and other information (TBD).
* Set to 1 the MLD MAC address Present Subfield in the Multi-Link Control field

[Motion 115, #SP89]

A STA that is part of an MLD shall include the MAC address of the MLD with which the STA is affliated in an Authentication Request or Authentication Response frame it transmits. The container of the the MAC address of the MLD is TBD.

An AP that is part of an AP MLD that supports SAE authentication shall include the MAC address of the AP MLD with which the AP is affliated in a Probe Response frame it transmits. The container of the the MAC address of the MLD is TBD.