IEEE P802.11
Wireless LANs

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| Proposed Draft Text for MLO Multi-Link Channel Access: Capability Signaling |
| Date: 2020-08-26 |
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Abstract

This submission proposes draft text for MLO Multi-Link Channel Access: Capability Signaling based on the following portions of the SFD:

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: add Motion 38, Motion 122 (#SP167) and Motion 26

802.11be shall allow a MLD that has constraints to simultaneously transmit and receive on a pair of links to operate over this pair of links.

* Signaling of these constraints is TBD.

 [Motion 46, [5] and [147]]

A MLD that supports multiple links can announce whether it can support transmission on one link concurrent with reception on the other link for each pair of links.

NOTE 1 – The 2 links are on different channels.

NOTE 2 – Whether to define a capability of announcing the support transmission on one link concurrent with transmission on the other link is TBD.

[Motion 38, [5] and [102]]

If a MLD can support transmission on link 1 concurrent with reception on link2, but cannot support transmit on link2 concurrent with reception on link1, this pair of links will be non-STR.

[Motion 122, #SP167, [8] and [119]]

A MLD can indicate capability to support exchanging frames simultaneously on a set of affiliated STAs to another MLD.

[Motion 26, [5] and [103]]

***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).***

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

***Insert new Clause 33 following Clause 32 as follows:***

33. Extremely High Throughput (EHT) MAC specification

33.x Multi-link channel access

33.x.y1 Capability signaling

A MLD can indicate capability to support exchanging frames simultaneously on a set of affiliated STAs to another MLD. A MLD that supports multiple links can announce whether it can support transmission on one link concurrent with reception on the other link for each pair of links. The two links of each link pair are on different channels. If a MLD can support transmission on link 1 concurrent with reception on link 2, and also can support transmission on link 2 concurrent with reception on link 1, this pair of links will be STR. If a MLD cannot support transmission on link 1 concurrent with reception on link2, no matter it can or cannot support transmit on link2 concurrent with reception on link1, this pair of links will be non-STR.

The details of capability signaling are TBD.

A MLD can operate over a pair of links that have constraints to simultaneously transmit and receive on this pair of links as descriped in 33.x.y2 (Non-STR: General) and 33.x.y3 (End PPDU alignment).

**Straw Poll: Do you support to incorporate the proposed draft text in this document 11-20/1320r1 to the TGbe Draft 0.1?**

**Result: Yes/No/Abstain**