IEEE P802.11
Wireless LANs

|  |
| --- |
| Proposed Draft Text for MLO: Soft AP MLD Operation |
| Date: 2020-08-24 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Kaiying Lu | MediaTek Inc. | 2840 Junction Ave, San Jose, CA 95134 |  | kaiying.lu@mediatek.com  |
| Jinjing Jiang | Apple Inc. |  |  | jinjing@apple.com |
| Yongho Seok | MediaTek Inc. |  |  |  |
|  |  |  |  |  |

Abstract

This submission proposes draft text for MLO: Soft AP MLD Operation based on the following portions of the SFD:

1. Move to define mechanisms to support the operation of a Non-STR AP MLD in R1. The mechanisms are limited to instantiate a Non-STR Non-AP MLD as a Soft AP that could utilize all its links under TBD conditions. The exact language to govern such scope is TBD.

[Motion 125]

Revisions:

* Rev 0: Initial version of the document.
* Rev1: Updated version based on received comments.

***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.***

* Definitions, acronyms, and abbreviations
* Definitions specific to IEEE 802.11

***Insert the following definitions (maintaining alphabetical order) except green tag:***

**Soft access point (AP) multi-link device (MLD):** An MLD that consists of more than one station (STAs) affiliated with a non-AP MLD, where those STAs are only operated as APs by the MLD under TBD conditions.

**Non-STR soft access point (AP) multi-link device (MLD):** A non-STR MLD that consists of more than one station (STAs) affiliated with a non-STR non-AP MLD, where those STAs are only operated as APs by the non-STR MLD under TBD conditions

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

33. Extremely High Throughput (EHT) MAC specification

33.x Multi-Link Operation

33.x.y Non-STR Soft AP MLD Operation

33.x.y.1 General

A non-STR soft AP MLD shall set dot11NSTRSoftAPMLDActivated to true. If dot11NSTRSoftAPMLDActivated is equal to true, then the soft AP MLD establishes an EHT BSS following the rules defined in 33.x (EHT BSS Operation) with the following TBD exceptions.

A non-STR soft AP MLD supports simultaneous transmission of more than one PPDU under TBD conditions.

A non-STR soft AP MLD supports simultaneous reception of more than one PPDU under TBD conditions.

A non-STR soft AP MLD aligns the end time of the PPDUs as described in 33.x.y1 (PPDU end time alignment) when the non-STR soft AP MLD simultaneously transmits more than one PPDU under TBD conditions.

**Straw Poll: Do you support to incorporate the proposed draft text in this document 11-20/1407r0 to the TGbe Draft 0.1?**

**Result: Yes/No/Abstain**