IEEE P802.11
Wireless LANs

|  |
| --- |
| Proposed Draft Text for MLO: Soft AP MLD Operation |
| Date: 2020-09-24 |
| 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.
* Rev 1: Updated version based on received comments.
* Rev 2: Modified the definition parts and some wording changes
* Rev 3: Removed the last 3 paragraphs
* Rev 4: Wording changes
* Rev 5: Changed the definition part
* Rev 6: Changed the soft AP MLD definition part
* Rev 7: Changed the definition part by removing the co-located set and physical limitations
* Rev 8: Removed the MIB dot11NSTRSoftAPMLDActivated
* Rev 9: Changed the definition of soft AP MLD to TBD descriptions
* Rev10: Changed the definition of soft AP MLD back to r8 version and added “in a battery powered device”.

***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 AP MLD with dot11SoftAPMLDActivated set to true that is in a battery powered device and whose affiliated APs use the same antenna connectors as a set of non-AP STAs.*

**Non Simultaneous Transmit and Receive (NSTR) soft access point (AP) multi-link device (MLD):** *A soft AP* *MLD having* at least one non-STR link pair.

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

33. Extremely High Throughput (EHT) MAC specification

33.x Multi-Link Operation

33.x.y NSTR Soft AP MLD Operation

33.x.y.1 General

An NSTR soft AP MLD shall set dot11SoftAPMLDActivated to true. The NSTR soft AP MLD utilizes all links of the NSTR soft AP MLD under TBD conditions.

**Straw Poll: Do you support to incorporate the proposed draft text in this document 11-20/1407r10 to the TGbe Draft 0.1?**

**Result: Yes/No/Abstain**