IEEE P802.11  
Wireless LANs

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| 11be D4.0 CR for 35.3.19 | | | | |
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| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Kaiying Lu | Mediatek USA |  | 1-408-3872160 | kaiying.lu@mediatek.com |

Abstract

This submission proposes resolutions for the following CIDs:

19219, 20001, 20095, 19412, 20111, 20112, 20113

Revisions:

* Rev 0: Initial version of the document.

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 D3.0 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe D3.0 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.***

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| **CID** | **Commenter** | **Clause** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 19219 | John Wullert | 3.2 | 59.01 | The definition of NSTR mobile AP MLD indicates that the device has a NSTR link pair, but does not clarify that the device has only that link pair. | Rephrase definition as "A mobile access point (AP) multi-link device (MLD) with single link pair that is a nonsimultaneous transmit and receive (NSTR) link pair." | Rejected.  There are more detailed descriptions about NSTR mobile AP MLD in the spec text. |
| 20001 | Rubayet Shafin | 35.3.19 | 571.17 | Power saving operation for NSTR Mobile AP MLD is not clear from the current spec. | Please provide clarifying text on STA and AP side behavior on this. | Revised.  NSTR mobile AP MLD can have power save by disabling the non-primary link without any impact to the legacy and single link devices.  Added a note to clarify it.  TGbe editor to make the changes with the CID tag (#20001) in IEEE 11-23/1785r1 |
| 20095 | Kaiying Lu | 35.3.19.2 | 573.10 | Need to clarify the behavior of a non-AP MLD. | The commenter will propose the text changes. | Revised.  Agree with the comment in principle.  TGbe editor to make the changes with the CID tag (#20095) in IEEE 11-23/1785r1 |
| 19412 | Guogang Huang | 35.3.19.2 | 573.06 | Based on this sentence, it will exclude other cases to use TBTT Info Field Type equal to 1 and TBTT Info Field Length equal to 3. This is a big change on the original usage of TBTT Info Field Type and TBTT Info Field Length subfields | If a reported AP is operating on the nonprimary link, the corresponding TBTT Information Field Type and TBTT Information Field Length subfields shall be set to 1 and 3, respecitively. The non-AP MLD shall identify the reported AP as an AP operating on the nonprimary link if the B0 of the corresponding AP MLD Type Indication subfield, the TBTT Information Field Type subfield and the TBTT Information Length subfield are set to 1, 1 and 3, respecitively. | Revised.  TGbe editor to make the changes with the CID tag (#20095) in IEEE 11-23/1785r1 |
| 20111 | Rubayet Shafin | 35.3.19.1 | 571.19 | A procedure is needed to enable broadcast TWT operation for NSTR mobile AP MLD. | As in comment | Revised.  The similar comment (CID#20108) has been resolved in IEEE 11-23/1553r3. |
| 20112 | Rubayet Shafin | 35.3.19.1 | 571.19 | How an AP operating on the nonprimary link of the NSTR mobile AP MLD can advertise and manage a broadcast TWT or R-TWT schedule is not clear. A mechanism is needed to enable this. | As in comment | Revised.  The similar comment (CID#20108) has been resolved in IEEE 11-23/1553r3. |
| 20113 | Rubayet Shafin | 35.3.19.1 | 571.19 | Power saving, especially B-TWT/R-TWT operation, for NSTR mobile AP MLD needs to be clarified in the spec. | As in comment | Revised.  The similar comment (CID#20108) has been resolved in IEEE 11-23/1553r3. |

*TGbe editor: Change Clause 35.3.19 as follows (track change on):*

**35.3.19 NSTR mobile AP MLD operation**

**35.3.19.1 General**

…

An NSTR mobile AP MLD shall designate one of the links of an NSTR link pair as the primary link (#19349)of the AP MLD. (#19790)(#19791)The primary link shall not be disabled or removed and the nonprimary link may be disabled or removed. The other link of the NSTR link pair is the nonprimary link. When the NSTR mobile AP MLD intends to change the channel/operating class for the primary link, it shall perform the channel switch procedure. The NSTR mobile AP MLD shall schedule for transmissions of Beacon and Probe Response frames and group addressed Data frames only on the primary link.

(#20001)NOTE x - NSTR mobile AP MLD can save power by disabling or removing the non-primary link without any impact to the legacy and single link EHT devices.

**35.3.19.2 Discovery of an NSTR mobile AP MLD**

The discovery procedure for an NSTR mobile AP MLD is the same as the procedure described in 35.3.4 (Discovery of an AP MLD) with the following exceptions:

—An AP affiliated with an NSTR mobile AP MLD and that is operating on the primary link shall indicate that it is an NSTR mobile AP MLD by setting AP MLD Type Indication subfield to 1 in MLD Capabilities And Operations subfield of Common Info field in the Basic Multi-Link element.

—An AP affiliated with an NSTR mobile AP MLD and that is operating on the primary link shall include a Reduced Neighbor Report element with the MLD Parameters subfield present in a TBTT Information field corresponding to a reported AP affiliated with the same NSTR mobile AP MLD and that is operating on the nonprimary link of the NSTR link pair in a Beacon and Probe Response frames that it transmits. The Neighbor AP TBTT Offset subfield, the BSSID subfield, the Short-SSID subfield, the BSS Parameters subfield and the 20 MHz PSD subfield shall not be present in the TBTT Information field for that reported AP. The TBTT Information Field Type subfield shall be set to 1 to identify, together with the TBTT Information Length subfield, the format of the TBTT Information field for the reported AP operating on the nonprimary link.

—(#20095)A non-AP MLD shall identify the NSTR mobile AP MLD by AP MLD Type Indication subfield equal to 1 in MLD Capabilities And Operations subfield of Common Info field in the Basic Multi-Link element received on the primary link. A non-AP STA affiliated with a non-AP MLD shall not transmit a Probe Request frame to the AP affiliated with the NSTR mobile AP MLD and that is operating on the nonprimary link of the NSTR link pair. To request a complete profile of the AP operating on the nonprimary link, a non-AP STA affiliated with a non-AP MLD shall send a multi-link probe request to an AP affiliated with the NSTR mobile AP MLD and that is operating on the primary link (see 35.3.4.2 (Use of multi-link probe request and response)).

—The NSTR mobile AP MLD shall not respond to any received Probe Request frames on the nonprimary link.