**IEEE P802.11
Wireless LANs**

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| LB266 CR for 35.3.20 (NSTR Mobile AP MLO)  |
| Date: 2022-07-25 |
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Abstract

This submission proposes resolutions for multiple comments related to TGbe D2.0 with the following CIDs (31 CIDs):

* 10014, 10132, 10168, 10720, 10721, 10855, 10900, 11270, 11644, 12284, 12330, 12390, 12391, 12392, 12437, 12438, 12523, 12734, 12735, 13007, 13073, 13075, 13425, 13651, 13652, 13653, 13851, 14035, 14074, 14087, 11165

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 subsequent TGbe Draft. This introduction is 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).***

***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.***

| **CID** | **Commenter** | **Subclause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- | --- |
| 10014 | Jay Yang | 35.3.19.2  | 469.56 | "The TBTT Information Field Type subfield shall set to 1" also can be used in AP MLD when at least one affiliciated AP is in unavailable state without causing compatible issue with legacy STA. | as the comments. | RejectedThe commenter failed to identify the compatible issue with legacy STAs. |
| 10132 | Jay Yang | 35.3.19.1  | 468.59 | need some sentence to clarify the Trigger Based channel access | as the comments. | RevisedAgree with the commenter in principle. Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #10132 |
| 10168 | Julien Sevin | 35.3.19.1  | 468.44 | In the scope of an NSTR mobile AP MLD operation, an NSTR mobile AP MLD shall designate one link of an NSTR link pair as the primary link. No procedure has been specified to designate the primary link | Specify a procedure for designating a primary link | RevisedThe bit set to 1 in the NSTR Indication Bitmap subfield of the Per-STA Profile of the non-primary link indicates the primary link. Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #10168. |
| 10721 | Xiandong Dong | 35.3.19.1 | 468.45 | is it needed to difine a mechnism wrt how does the NSTR mobile AP designate a link as primary link, if not, how does the non-AP MLD know it will not send probe request on nonprimary link, please clarify | As in the comment | RevisedThe nonprimary link will be discovered by a non-AP MLD through RNR element in the received Beacon frame or probe response frame so that the non-AP MLD will not transmit a Probe Request frame on nonprimary link.The bit set to 1 in the NSTR Indication Bitmap subfield of the Per-STA Profile of the non-primary link indicates the primary link. Tgbe editor please implement changes as shown in doc 11-22/11180r0 tagged as #10721 |
| 13007 | Chunyu Hu | 35.3.19.1 | 468.44 | How is the primary link designation is done? Does it need to be signaled/advertised to (un)associated STAs? If not, is the primary link selection permanent throughput the lifetime of the BSS? | Need to develop text to address the problems raised in the comment. | RevisedThe bit set to 1 in the NSTR Indication Bitmap subfield of the Per-STA Profile of the non-primary link indicates the primary link. If the primary link needs to be changed, channel switching can be performed to achieve this purpose.Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #13007. |
| 10720 | Xiandong Dong | 35.3.19.1  | 469.20 | what is the follow up behaviour of the NSTR mobile AP MLD if it reveives a probe request from a legacy STA on the nonprimary link, please clarify. | as in the comment | RevisedSince NSTR mobile AP MLD is only allowed to transmit Probe Response frames on the primary link, it shall not respond to any received Probe Request.Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #10720. |
| 10855 | Jinsoo Choi | 35.3.19.1 | 468.40 | MLD is in a mobile device that is typically battery powered" would restrict the usage of this feature as some limited device type, but can we extend this good feature to other type of devices like many IoT equipments(in fixed position) with being battery powered or some home appliances implemented under limited antenna/BW configuration(even not being battery powered)? It might be good not to exclude this types of devices if we can improve the sentence without requiring any significant changes in the spec(that is not intention of this comment). | As the comment | RevisedAgree with the commenter in principle.Change the text to a note. Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #10855 |
| 11270 | Sigurd Schelstraete | 35.3.19.1 | 468.40 | "The NSTR mobile AP MLD is in a mobile device that is typically battery powered". This sounds like a note, not a requirement. | Make text a note | RevisedAgree with the commenter in principle.Change the text to a note. Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #11270 |
| 10900 | Akira Kishida | 35.3.19.1 | 468.40 | It looks that there is no clear difinition of primary link nor non-primary link. For example, we can see "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. The other link of the NSTR link pair is the nonprimary link." It is desirable to be able to change primary link and nonprimary link according to the quality of the links. A procedure to change the role of the links should be added. | As in the comment | RevisedLegacy STAs and single link EHT STAs can only operate on the primary link. Therefore, in order to change the primary link, an AP affiliated with an NSTR mobile AP MLD can perform channel switching procedure so that legacy STAs can understand and switch the link.Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #10900. |
| 12284 | KENGO NAGATA | 35.3.19.1 | 468.44 | It looks that there is no clear difinition of primary link nor non-primary link. For example, we can see "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. The other link of the NSTR link pair is the nonprimary link." It is desirable to be able to change primary link and nonprimary link according to the quality of the links. A procedure to change the role of the links should be added. | As in the comment. | RevisedLegacy STAs and single link EHT STAs can only operate on the primary link. Therefore, in order to change the primary link, an AP affiliated with an NSTR mobile AP MLD can perform channel switching procedure so that legacy STAs can understand and switch the link.Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #12284. |
| 13653 | Rubayet Shafin | 35.3.19 | 468.25 | In many scenarios, the primary link of an NSTR Mobile AP MLD may have hostile operating condition (e.g. due to degraded RF situation on primary link). In such cases, the non-primary links also become non-functioning although the non-primary link might have favorable operating condition. | Please provide a mechanism to change the designation of primary link of an NSTR mobile AP MLD. | RevisedLegacy STAs and single link EHT STAs can only operate on the primary link. Therefore, in order to change the primary link, an AP affiliated with an NSTR mobile AP MLD can perform channel switching procedure so that legacy STAs can understand and switch the link.Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #13653. |
| 11644 | Morteza Mehrnoush | 35.3.19.1 | 468.32 | In the current text, NSTR mobile AP shall have only one NSTR link pair. Extending it to more than one NSTR link pair (more than two APs in NSTR mobile AP) is useful as the mobile AP is able to do: 1) better load balancing, 2) disable a link due to AP unavailability and still operate in MLO mode, 3) allocate a link for latency sensitive traffic, etc. | Enable the NSTR mobile AP to have more then one NSTR link pair. | Rejected.For mobile AP MLD with dot11EHTBaseLineFeaturesImplementedOnly equal to true, the group has decided to allow only one NSTR link pair. |
| 13073 | Chittabrata Ghosh | 35.3.19.1 | 468.32 | In the current text, NSTR mobile AP shall have only one NSTR link pair. Extending it to more than one NSTR link pair (more than two APs in NSTR mobile AP) is usefull as the mobile AP is able to do: 1) better load balancing, 2) disable a link due to AP unavailability and still operate in MLO mode, 3) allocate a link for latency sensitive traffic, etc. | Enable the NSTR mobile AP to have more then one NSTR link pair. | Rejected.For mobile AP MLD with dot11EHTBaseLineFeaturesImplementedOnly equal to true, the group has decided to allow only one NSTR link pair. |
| 13652 | Rubayet Shafin | 35.3.19 | 468.25 | Currently, the Mobile AP MLD operation in 11be is restricted within two links. This can be quite limiting. | Please generalize the Mobile AP MLD operation to more than two links. | Rejected.For mobile AP MLD with dot11EHTBaseLineFeaturesImplementedOnly equal to true, the group has decided to allow only one NSTR link pair. |
| 12330 | Guogang Huang | 35.3.19.1 | 468.47 | Considering that Beacon frame cannot be sent on the non-primary link, both group addressed Data and Management frames should not be sent on the non-primary link. Please delete the word "Data" | Replace "group addressed Data frames" with "group addressed frames". | Accepted.Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #12330. |
| 12390 | Rojan Chitrakar | 35.3.19.1 | 469.12 | Why "peer device" is used here when the immediately preceding sentence and elsewhere use associated non-AP STA? | Replace "peer device" with associated non-AP STA. | Accepted.Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #12390. |
| 12391 | Rojan Chitrakar | 35.3.19.2 | 469.45 | Directly reference bit number (B7) is risky, in case the format of the MLD capabilities field is changed, the bit position may change; also B7 refers to bit position within the MLD capabilities and operations subfield, not within the AP MLD Type Indication subfield. | Best if values of the the AP MLD Type Indication subfield can be used, e.g. value 0 indicates not a NSTR mobile AP MLD, 1 indicates NSTR mobile AP MLD and remaining values are reserved. If preference is to use the first bit of the subfield, change B7 to B0 of the AP MLD Type Indication subfield. | Revised.Agree with the comment in principle.AP MLD Type Indication subfield set to 1 is to indicate NSTR mobile AP MLD.Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #12391. |
| 11165 | Youhan Kim | 9.4.2.313.2 | 229.32 | EHT defines a mobile AP. We then need a mechanism for a non-AP STA to know whether it is communicating with a 'regular' AP or a mobile AP. | Add a subfield to the EHT Capabilities element indicating whether the AP is a mobile AP or not. | Revised.Agree with the comment in principle.AP MLD Type Indication subfield set to 1 is to indicate NSTR mobile AP MLD.Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #11165. |
| 12392 | Rojan Chitrakar | 35.3.19.2 | 469.60 | What about a non-MLD non-AP STA (either EHT or legacy non-AP STA), is it allowed to transmit a probe request frame to the AP operating on the non-primary link? | Clarify the discovery procedure of the affiliated AP of an NSTR mobile AP MLD from the perspective of a non-MLD non-AP STA. | Revised.Agree with the comment in principle.A legacy STA is not able to discover an AP affiliated with an NSTR mobile AP MLD operating on the nonprimary link through RNR transmitted on the primary link. However, a legacy STA may perform active scanning on any link, which could happen now.For an EHT STA, it is not allowed to transmit on the nonprimary link if it intends to associate with an AP affiliated with an NSTR mobile AP MLD. Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #12392. |
| 12437 | Ryuichi Hirata | 35.3.19.1 | 468.40 | NSTR mobile AP MLD is typically battery powerd. Therefore, a power save mechanism is required for the NSTR mobile AP MLD such as indication of AP unavailability. | Define the power save mechanism for an NSTR mobile AP MLD. For example, the NSTR mobile AP MLD indicates information about AP unavailability, such as duration | Revised.Agree with the comment in principle.The Disabled link indication and AP advertised TID-to-Link mapping are accepted in 11-22/1023r5. It can be applied to nonprimary link for NSTR mobile AP MLD. Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #12437. |
| 12438 | Ryuichi Hirata | 35.3.19.1 | 468.40 | NSTR mobile AP MLD is typically battery powerd. Therefore, a power save mechanism is required for the NSTR mobile AP MLD. When an AP affiliated with an AP MLD is in power save mode, the AP must inform associated non-AP STAs(including legacy STAs) not to transmit any frames on its operating link. | Define the power save mechanism for NSTR mobile AP MLD. For example, an AP affiliated with NSTR mobile AP MLD indicates non-AP STAs not to transmit any frames to AP in power save mode. | Revised.Agree with the comment in principle.The Disabled link indication and AP advertised TID-to-Link mapping are accepted in 11-22/1023r5. It can be applied to nonprimary link for NSTR mobile AP MLD. Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #12438. |
| 12523 | Yusuke Tanaka | 35.3.19.1 | 468.25 | Mobile APs are usually battery powered, so power saving features equivalent to non-AP are required. | Please define power saving features for mobile APs. | Revised.Agree with the comment in principle.The Disabled link indication and AP advertised TID-to-Link mapping are accepted in 11-22/1023r5. It can be applied to nonprimary link for NSTR mobile AP MLD. Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #12523. |
| 13075 | Chittabrata Ghosh | 35.3.19.1 | 469.44 | Based on the current spec, the non-primary link in NSTR mobile AP is not doing beaconing (beacon, probe, groupcast frames only on primary link), so the AP on non-primary link of the NSTR mobile AP can go to power save cleanly as it's not doing the regular AP operations. Since the NSTR mobile-AP is a mobile device, power save is very important. Please define a mechanism for the power save of the AP on non-primary link in NSTR mobile AP and add signaling for power management mode change. | As in comment. | Revised.Agree with the comment in principle.The Disabled link indication and AP advertised TID-to-Link mapping are accepted in 11-22/1023r5. It can be applied to nonprimary link for NSTR mobile AP MLD. Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #13075. |
| 14035 | Kaiying Lu | 35.3.19 | 468.25 | Link unavailability or disablement for nonprimary link for power save of NSTR mobile AP MLD needs to be clarified | Commenter will provide comment resolution | Revised.Agree with the comment in principle.The Disabled link indication and AP advertised TID-to-Link mapping are accepted in 11-22/1023r5. It can be applied to nonprimary link for NSTR mobile AP MLD. Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #14035. |
| 14074 | Liuming Lu | 35.3.19 | 468.25 | The power save mechanism for NSTR mobile AP MLD operation needs to be clarified. | As in comment | Revised.Agree with the comment in principle.The Disabled link indication and AP advertised TID-to-Link mapping are accepted in 11-22/1023r5. It can be applied to nonprimary link for NSTR mobile AP MLD. Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #14074. |
| 14087 | Rubayet Shafin | 35.3.19 | 468.25 | Procedures related to different power saving mechanism is currently missing for NSTR Mobile AP MLD and needs to provided for clarity. | As in comment | Revised.Agree with the comment in principle.The Disabled link indication and AP advertised TID-to-Link mapping are accepted in 11-22/1023r5. It can be applied to nonprimary link for NSTR mobile AP MLD. Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #14087. |
| 12734 | Pascal VIGER | 35.3.19.1 | 468.49 | It is mandated that TSF timers of all APs affiliated with an NSTR mobile AP MLD shall be the same. Why does this requirement applies to NSTR Mobile AP and not globally all MLD APs ? The Note 2 that follows provides advantage for non-AP MLDs to only follow one TSF which seems simplier, why doesn't it make sense more generally ? | Please confirm the issue behind such obligation for Mobile AP. And make possible alignement with classical AP MLD. | Rejected.APs affiliated with an STR AP MLD can independently operate without any obligation.  |
| 12735 | Pascal VIGER | 35.3.19.1 | 468.42 | What is the purpose of NOTE 1 (Each AP affiliated with an NSTR mobile AP MLD has different MAC address) ? Because it seems to be normal situation. | as per comment | Revised.Agree with the comment in principle.Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #12735. |
| 13007 | Chunyu Hu | 35.3.19.1 | 468.44 | How is the primary link designation is done? Does it need to be signaled/advertised to (un)associated STAs? If not, is the primary link selection permanent throughput the lifetime of the BSS? | Need to develop text to address the problems raised in the comment. | RevisedThe bit set to 1 in the NSTR Indication Bitmap subfield of the Per-STA Profile of the non-primary link indicates the primary link. If the primary link needs to be changed, channel switching can be performed to achieve this purpose.Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #13007. |
| 13425 | Liwen Chu | 35.3.19.3 | 470.04 | There is a requirement to quiet the secondary channel for DFS detection etc. | address the issue per the comment. | Revised.Agree with the comment in principle. Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #13425. |
| 13651 | Rubayet Shafin | 35.3.19 | 468.25 | Simultaneous Transmission and Reception would be a key feature for Mobile AP MLD in 11be. However, currently the mechanisms and operational procedures for STR Mobile AP MLD is missing in the spec | Please provide description of framework and operation of STR Mobile AP MLD. | Rejected.STR Mobile AP MLD follows the same operation rules as an AP MLD. No additional rules are necessary, |
| 13851 | Sanghyun Kim | 35.3.19.1 | 469.01 | Need to consider if it is necessary to specify that a PPDU transmitted by a non-AP STA operating on the primary link shall be a PPDU transmitted to the AP operating on the primary link?-It is to prevent a case where a non-AP STA operating on a non-primary link initiates a PPDU transmission to its associated AP, while a non-AP STA operating on the primary link transmitting a PPDU to its own P2P peer STA. | As in comment. | Revised.Agree with the comment in principle.Tgbe editor please implement changes as shown in doc 11-22/1233r0 tagged as #13425. |

1. **Introduction**
2. **Proposed spec text**

**35.3.20 NSTR mobile AP MLD operation**

**35.3.20.1 General**

***TGbe editor: Please modify the following subclause 35.3.20.1 as follows:***

An NSTR mobile AP MLD shall be an AP MLD which sets dot11EHTNSTRMobileAPMLDImplemented to true. If dot11EHTBaseLineFeaturesImplementedOnly is equal to true, an NSTR mobile AP MLD shall have one NSTR pair of links and shall follow with the restrictions below:

* Each AP affiliated with an NSTR mobile AP MLD may optionally support the following features in addition to the optional features supported by a regular AP

•Support of DL and UL OFDMA operation

•Support of two or more spatial streams

•Support for 160 MHz operating channel width in the 6 GHz band

NOTE 1—An NSTR mobile AP MLD follows the same rules defined in 35.3.2 (Multi-link device addressing) (#12735). An NSTR mobile AP MLD is in a mobile device that is typically battery powered (#11270)

An NSTR mobile AP MLD shall designate one link of an NSTR link pair as the primary link. The NSTR mobile AP MLD shall schedule for transmissions of Beacon and Probe Response frames and group addressed (#12330) frames only on the primary link. The other link of the NSTR link pair is the nonprimary link. The bit corresponding to the primary link in the NSTR Indication Bitmap subfield of the Per-STA Profile subelement corresponding to the nonprimary link in the Basic Multi-Link element shall be set to 1(#10168, #10721, #13007).

An AP affiliated with an NSTR mobile AP MLD on the primary link shall perform channel switching when the NSTR mobile AP MLD decides to change the primary link. An AP affiliated with an NSTR mobile AP MLD on the nonprimary link shall perform channel switching following the rules defined in 35.3.19.3 (NSTR mobile AP MLD multi-link procedures for channel switching, extended channel switching, and channel quieting). (#10855, #11270, #12284, #13007).

TSF timers of all APs affiliated with an NSTR mobile AP MLD shall be the same.

NOTE 2—A non-AP MLD that is associated with an NSTR mobile AP MLD follows the TSF timers of all APs affiliated with an NSTR mobile AP MLD in each link. Since TSF timers of all APs affiliated with an NSTR mobile AP MLD is the same, a non-AP MLD that is associated with an NSTR mobile AP MLD only needs to maintain one TSF timer for all the links.

A non-AP MLD shall perform frame exchanges during the authentication, (re)association, and 4-way handshake procedures only on the primary link of the NSTR mobile AP MLD.

NOTE 3—Any frames including management frames are disallowed to be transmitted on the nonprimary link alone through EDCA channel access.

STAs affiliated with a non-AP MLD that is associated with an NSTR mobile AP MLD and APs affiliated with an NSTR mobile AP MLD shall follow the procedure defined in 35.3.16.6 (Start time sync PPDUs medium access) when intending to transmit in the nonprimary link with the following additional constraints:

—A STA affiliated with the non-AP MLD may initiate a PPDU transmission to its associated AP affiliated with the NSTR mobile AP MLD in the nonprimary link only if the other STA affiliated with the same MLD in the primary link is also initiating the PPDU as a TXOP holder to its associated AP(#13851) with the same start time.

—An AP affiliated with the NSTR mobile AP MLD may initiate a PPDU transmission to its associated non-AP STA in the nonprimary link only if the other AP affiliated with the same NSTR mobile AP MLD in the primary link is also initiating the PPDU as a TXOP holder with the same start time.

APs affiliated with an NSTR mobile AP MLD that are simultaneously transmitting PPDUs to the associated non-AP STAs (#12390) affiliated with an MLD shall align the end time of PPDUs following the same rules that are defined for an AP MLD in 35.3.16.5 (PPDU end time alignment).STAs affiliated with a non-AP MLD that are simultaneously transmitting PPDUs to the respective APs affiliated with an NSTR mobile AP MLD shall align the end time of PPDUs following the same rules that are defined for an AP MLD in 35.3.16.5 (PPDU end time alignment).

NOTE 4—The end time alignment of PPDUs carrying the response frames follow the same rules as those for the soliciting PPDUs.

An NSTR mobile AP MLD shall set the SRS Support subfield in the Common Info field of the Basic Multi-Link element it transmits to 1 to indicate support for the reception of a frame that carries an SRS Control subfield if its dot11SRSOptionImplemented is true; otherwise, the MLD shall set it to 0.

If STAs affiliated with a non-AP MLD or its associated NSTR mobile AP MLD simultaneously transmit PPDUs to a STA affiliated with an MLD that has dot11SRSOptionImplemented equal to true, and the transmitted PPDUs solicit control response frames and the MLD intends to align the end times of the PPDUs sent in response by the peer STAs, then at least one of the PPDUs soliciting a control response frame shall carry an MPDU with SRS Control subfield following the procedure defined in 35.3.16.5.2 (End time alignment of response PPDUs using SRS Control field).

Default TID-to-link mapping mode shall be supported in the NSTR link pair.

An AP affiliated with an NSTR mobile AP MLD on the nonprimary link may be advertised as disabled by another AP affiliated with the same NSTR mobile AP MLD as defined in 35.3.8.1.7 (Advertised TID-to-link mapping in Beacon and Probe Response frames). The Disabled Link Indication subfield of the MLD Parameters subfield of the TBTT Information field of the Neighbor AP Information field corresponding to the AP operating on the nonprimary link is set to 1 if the nonprimary link that is advertised as disabled for all associated non-AP MLDs (#12437, #12438, #12523).

**35.3.20.2 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 of an NSTR link pair shall indicate that it is an NSTR mobile AP MLD by setting (#12391)AP MLD Type Indication subfield to 1 in MLD Capabilities and Operations field 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 of an NSTR link pair 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 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-BSSID 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 set to 1 to identify, together with the TBTT Information Length subfield set to 3, the format of the TBTT Information field for the reported AP operating on the nonprimary link.

—A non-AP MLD shall be able to identify the AP affiliated with an NSTR mobile AP MLD on the nonprimary link by receiving a Reduced Neighbor Report element with the TBTT Information Field Type set to 1 and the TBTT Information Length subfield set to 3 (#10168, #10721, #13007).

—A non-AP MLD shall be able to identify the AP affiliated with an NSTR mobile AP MLD on the primary link with the corresponding bit set to 1 in the received NSTR Indication Bitmap subfield included in the Per-STA Profile subelement corresponding to the nonprimary link (#10168, #10721, #13007).

—A non-AP STA affiliated with a non-AP MLD or an EHT non-AP STA (#12392) 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, if it intends to associate with the NSTR mobile AP MLD (#12392). To request a complete profile of the AP operating on the nonprimary link, a non-AP STA affiliated with a non-AP MLD may 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 (#10720).

**35.3.19.3 NSTR mobile AP MLD multi-link procedures for channel switching, extended channel switching, and channel quieting (#13425)**

Multi-link procedures for channel switching, extended channel switching, and channel quieting for an AP affiliated with an NSTR mobile AP MLD on the nonprimary link follow the same rules defined in 35.3.11 (Multi-link procedures for channel switching, extended channel switching, and channel quieting) with the following exceptions:

* An AP affiliated with an NSTR Mobile AP MLD on the primary link may schedule channel switching and quiet intervals for the AP affiliated with the same NSTR Mobile AP MLD on the non-primary link by including the corresponding elements in a Per-STA Profile subelement corresponding to the AP on the non-primary link carried in Beacon frames and Probe Response frames that it transmits on the primary link.

—The timing fields in the Channel Switch Announcement element, the Extended Channel Switch Announcement element, the Quiet element, and the Quiet Channel element shall be applied in reference to the most recent TBTT and BI indicated in the corresponding element(s) of the AP operating on the primary link.