IEEE P802.11
Wireless LANs

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| Resolutions for CC34 CIDs for More Data usage |
| Date: 2021-02-08 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Laurent Cariou |  |  |  | laurent.cariou@intel.com |

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| **CID** | **Commenter** | **Clause Number(C)** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 1195 | Arik Klein | 35.3.6.1.5 | 134.23 | Need to change the language in the following text: "When an AP MLD transmits a PPDU carrying a BU in one enabled link to a non-AP MLD...".The AP MLD does not transmit any PPDU, but only any of its affiliated APs. Similarly, the non-AP MLD does not transmit any PPDU but rather any of its affiliated non-AP STAs | Revise the sentence as follows: "When an AP affiliated with AP MLD transmits a PPDU carrying a BU in one enabled link to its associated STA affiliated with a non-AP MLD...." |  Revised – agree with the commenter. Apply the changes marked as #1195 in this document. |
| 1444 | Chunyu Hu | 35.3.6.1.5 | 134.21 | More Data subfield is used by the AP in frames to a STA in PS mode in the baseline. When extending to the MLD case, if none of STAs affiliated to the MLD is in PS mode, then More Data field should not be required to set to 1 but this subclause doesn't mentioned any PS mode and states otherwise. | See comments |  Revised – agree with the commenter. Apply the changes marked as #1444 in this document. |
| 1882 | Jarkko Kneckt | 35.3.6.1.5 | 134.23 | The More Data frame value 1 is traditionally used only for STAs in power save mode. | Please clarify whether the More Data bit is maintained for active mode and power save mode STAs. Please clarify in which link the power save mode is tracked. |  Revised – agree with the commenter. Apply the changes marked as #1882 in this document. |
| 2516 | Pooya Monajemi | 35.3.6.1.5 | 134.23 | Setting a more data bit as described in this sentence requires instantaneous information about the state of other links and may not be accurate | Change shall to should |  Rejected – if we want to preserve the functionality of the More Data field, it has to be a “shall” statement.  |
| 3379 | Zhou Lan | 35.3.6.1.5 | 134.20 | The rule for setting the More Data subfield is related with the EOSP and TIM setting. Add the related rules. | As stated in the comment |  Revised – it seems that the EOSP rules are orthogonal and are kept per link in 11be. But the rules for More Data and relationship to TIM setting needs to be clarified. Apply the changes marked as #3379 in this document. |
| 1497 | Dibakar Das | 35.3.6.15 | 134.23 | The AP should also be able to use More Data fields in the BA or Multi-STA BA to signal it has pending data for any TID that is mapped to this link. | Clarify the usage of More Data field in BA or Multi-STA BA when transmitted by a STA affiliated with an MLD. |  Revised – agree with the commenter. Apply the changes marked as #1497 in this document. |
| 1001 | Abhishek Patil | 9.2 | 51.04 | Spec needs to clarify the usage of More Data subfield (9.2.4.1.8) and EOSP subfield (9.2.4.5.3) with and without when TID mapping is negotiated. | Update the description in 9.2.4.18 and 9.2.4.5.3 to be consistent with 35.3.6.1.5 |  Revised – agree with the commenter. Change 9.2.4.1.8 according to 35.3.6.1.5. Apply the changes marked as #1001 in this document. |

1. **Introduction**

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 Draft. The introduction and the explanation of the proposed changes are 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).***

1. **Proposed spec text**

The baseline for this text is 802.11ax 8.0 and REVmd D4.0

20 **35.3.6.1.5 Use of More Data subfield by an MLD**

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 ***TGbe editor: Change following paragraph as follows (#1195):***

1. When an AP affiliated with an AP MLD transmits a PPDU carrying a BU in one enabled link to a STA in PS mode affiliated with a non-AP MLD, if there is, at the
2. AP MLD, at least one additional buffered BU of any TID that is mapped to this link by the most recent DL TID-to-link
3. mapping(including default mapping) or a Management frame for the same non-AP MLD that is not
4. carried in the PPDU, the More Data subfield is set to 1, otherwise the More Data subfield is set

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to 0. (#1444, #1882) A STA that is affiliated with an MLD shall follow the procedure defined in 11.2.3.6 (AP operation), 11.2.3.7 (Receive operation for STAs in PS mode) and 11.2.3.8 (Receive operation using APSD) for the use of More Data subfield.

**9.2.4.1.8 More Data subfield**

***TGbe editor: Change paragraphs 2 as follows (from REVmd)*** #1497, #3379, 1001)***:***

A non-DMG and non-S1G(11ah) STA uses the More Data subfield to indicate to a STA in PS mode that more BUs are buffered for that STA at the AP. The More Data subfield is valid in individually addressed Data or Management frames transmitted by an AP to a STA in PS mode. (MDR2)The More Data subfield is set to 1 to indicate that at least one additional buffered BU is present for the same STA(#2262).

For a non-AP MLD, an AP affiliated with an AP MLD uses the More Data subfield to indicate to a non-AP STA in PS mode affiliated with the non-AP MLD that more BUs, corresponding to Data frames with TIDs that are mapped to this link by the most recent DL TID-to-link mapping (negotiated TID-to-link mapping or default mode mapping, see 35.3.6.1 (TID-to-link mapping)) or Management frames that are not measurement MMPDUs (see 35.3.10.4 Traffic indication) are buffered for the non-AP MLD at the AP MLD. The More Data subfield is valid in individually addressed Data or Management frames transmitted by an AP affiliated with an AP MLD to a non-AP STA in PS mode and affiliated with a non-AP MLD. The More Data subfield is set to 1 to indicate that at least one additional buffered BU, corresponding either to one of a Data frame with a TID that is mapped to this link by the most recent DL TID-to-link mapping or to a Management frame that is not measurement MMPDUs (see 35.3.10.4 Traffic indication), is present at the AP MLD for the same non-AP MLD.

***TGbe editor: Change the following paragraphs as follows (from 11ax D8.0)*** #1497, #3379, 1001)***:***

An AP optionally sets the More Data subfield to 1 in Ack frames sent to a non-DMG non-S1G non-HE STA and in Ack, BlockAck and Multi-STA BlockAck frames sent to an HE STA. An HE AP indicates that it supports setting the More Data subfield to 1 in these control response frames by setting the More Data Ack subfield to 1 in the QoS Info field of elements it includes in frames transmitted to the STA.

The AP can set the More Data subfield to 1 to indicate that it has a pending transmission for the STA or, if the AP is affiliated with an AP MLD, to indicate that the AP MLD has additional buffered BUs corresponding to frames with TIDs that are mapped to the link on which the AP operates by the most recent DL TID-to-link mapping (negotiated TID-to-link mapping or default mode mapping, see 35.3.6.1 (TID-to-link mapping)) or Management frames that are not measurement MMPDUs (see 35.3.10.4 Traffic indication) for the non-AP MLD with which the STA is affiliated, if it has received a frame that contains a QoS Info field in which the More Data Ack subfield is equal to 1 from the STA and one of the following conditions is true:

— The STA is in PS mode and has one or more ACs that are delivery enabled (see 11.2.2.6 (AP operation during the CP)).

— The STA is in PS mode and is a TWT requester or a TWT scheduled STA (see 26.8 (TWT operation))

A TDLS peer STA optionally sets the More Data subfield to 1 in Ack frames sent to a non-HE STA and in Ack, BlockAck, and Multi-STA BlockAck frames sent to an HE STA. An HE TDLS peer STA indicates that it supports setting the More Data subfield to 1 in these control response frames by setting the More Data Ack subfield to 1 in the QoS Info field of the QoS Capability element it includes in frames transmitted to the STA.

The TDLS peer STA can set the More Data subfield to 1 to indicate that it has pending transmission for the STA if it has received from the STA a TDLS Setup Request frame or TDLS Setup Response frame that has the More Data Ack subfield equal to 1 in the QoS Info field of the QoS Capability element and one of the following conditions is true:

— The STA has TDLS peer PSM enabled (see 11.2.3.6 (AP operation))

— The STA is in PS mode and is a TWT requester or a TWT scheduled STA (see 26.8 (TWT operation)).

The More Data subfield is 1 in individually addressed frames transmitted by a mesh STA to a peer mesh STA that is either in light sleep mode or in deep sleep mode for the corresponding mesh peering, when additional BUs remain to be transmitted to this peer mesh STA.

The More Data subfield is set to 1 in individually addressed frames transmitted by a VHT AP to a VHT STA when both support the VHT TXOP power save feature (as determined from their VHT Capabilities elements) to indicate that at least one additional buffered BU is present for the STA. See 11.2.3.17 (VHT TXOP power save).

A non-DMG and non-S1G(11ah) STA sets the More Data subfield to 0 in all other individually addressed frames.

***[…]***

***[ignore this instruction] ~~TGbe editor: Change paragraphs 8 as follows (from REVmd)~~*** #1497, #3379, 1001)***:***

A non-DMG and non-S1G(11ah) STA sets the More Data subfield to 1 in non-GCR-SP group addressed frames transmitted by the AP when additional group addressed bufferable units (BUs) that are not part of an active GCR-SP remain to be transmitted by the AP during this beacon interval. The More Data subfield is set to 0 in non-GCR-SP group addressed frames transmitted by the AP when no more group addressed Bus that are not part of an active GCR-SP remain to be transmitted by the AP during this beacon interval and in all group addressed frames transmitted by non-AP STAs.

The More Data subfield is set to 1 in GCR-SP group addressed frames transmitted by the AP when additional group addressed BUs that are part of an active GCR-SP remain to be transmitted by the AP during this GCR-SP. The More Data subfield is set to 0 in GCR-SP group addressed frames transmitted by the AP when no more group addressed BUs that are part of an active GCR-SP remain to be transmitted by the AP during this GCR-SP.

The More Data subfield is 1 in group addressed frames transmitted by a mesh STA when additional group addressed BUs remain to be transmitted. The More Data subfield is 0 in group addressed frames transmitted by a mesh STA when no more group addressed BUs remain to be transmitted.

A DMG STA sets the More Data subfield as follows:

— In individually addressed frames, it is set to 1 to indicate that the STA has MSDUs or A-MSDUs

buffered for transmission to the frame’s recipient during the current SP or TXOP.

— It is set to 1 in group addressed frames transmitted by the AP when additional group addressed Bus remain to be transmitted by the AP during this beacon interval. The More Data subfield is set to 0 in group addressed frames transmitted by the AP when no more group addressed BUs remain to be transmitted by the AP during this beacon interval.

A DMG STA does not set the More Data bit to 1 if it does not have any MSDUs or A-MSDUs buffered for transmission to the frame’s recipient during the current SP or TXOP.

The More Data subfield is set to 1 in individually addressed frames transmitted by a CMMG AP to a CMMG STA when both support the CMMG TXOP power save feature (as determined from their CMMG Capabilities elements) to indicate that at least one additional buffered BU is present for the STA, see 11.2.3.19 (CMMG TXOP power save(11aj)).(11aj)

**11.2.3.6 AP operation(M53)**

g)…

***TGbe editor: Change following paragraphs as follows (from 11ax)*** #1497, #3379, 1001

For a STA in PS mode and not using U-APSD, the AP shall set the More Data subfield of the response Data or Management frame to 1 to indicate the presence of further buffered BUs (not including the BU currently being transmitted) for the polling STA if the STA is not affiliated with a non-AP MLD.

For a STA affiliated with a non-AP MLD and that is in PS mode and not using U-APSD, the AP shall set the More Data subfield of the response Data or Management frame to 1 to indicate the presence at the AP MLD of further buffered BUs (not including the BU currently being transmitted) corresponding either to Data frames with TIDs that are mapped to this link by the most recent DL TID-to-link mapping (negotiated TID-to-link mapping or default mode mapping, see 35.3.6.1 (TID-to-link mapping)) or to Management frames that are not measurement MMPDUs (see 35.3.10.4 Traffic indication) for the non-AP MLD with which the polling STA is affiliated.

For a STA that is not affiliated with a non-AP MLD and that is using U-APSD, the AP shall set the More Data subfield to 1 to indicate the presence of further buffered BUs (not including the BU currently being transmitted) that do not use delivery-enabled ACs. When all ACs associated with the STA are delivery-enabled, the AP shall set the More Data subfield to 1 to indicate the presence of further buffered BUs (not including the BU currently being transmitted) using delivery-enabled ACs. If there are buffered BUs to transmit to the STA, the AP may set the More Data bit in a QoS +CFAck frame to 1 in response to a QoS Data frame to indicate that it has one or more pending BUs buffered for the PS STA identified by the RA in the QoS +CF-Ack frame. An AP may also set the More Data bit in an Ack frame to 1 in response to a QoS Data frame to indicate that it has one or more pending BUs buffered for the PS STA identified by the RA in the Ack frame, if that PS STA has set the More Data Ack subfield in the QoS Info field ~~QoS Capability element~~ to 1. An HE AP may also set the More Data bit in a BlockAck or Multi-STA BlockAck frame to 1 to indicate that it has one or more pending BUs buffered for the HE PS STA identified by the RA in the BlockAck or Multi-STA BlockAck frame, if that HE PS STA has set the More Data Ack subfield in the QoS Info field to 1. An HE AP indicates support of sending Ack, BlockAck, or Multi-STA BlockAck frames with a nonzero More Data subfield by setting the More Data Ack subfield to 1 in the QoS Info field of frames it transmits.

For a STA that is using U-APSD and that is affiliated with a non-AP MLD:

* the AP shall set the More Data subfield to 1 to indicate the presence at the AP MLD of further buffered BUs (not including the BU currently being transmitted) that correspond either to Data frames with TIDs that are mapped to this link by the most recent DL TID-to-link mapping (negotiated TID-to-link mapping or default mode mapping, see 35.3.6.1 (TID-to-link mapping)) or to Management frames that are not measurement MMPDUs (see 35.3.10.4 Traffic indication) for the non-AP MLD and that do not use delivery-enabled ACs.
* When all ACs associated with the non-AP MLD are delivery-enabled, the AP shall set the More Data subfield to 1 to indicate the presence at the AP MLD of further buffered BUs (not including the BU currently being transmitted) that correspond either to Data frames with TIDs that are mapped to this link by the most recent DL TID-to-link mapping (negotiated TID-to-link mapping or default mode mapping, see 35.3.6.1 (TID-to-link mapping)) or to Management that are not measurement MMPDUs (see 35.3.10.4 Traffic indication) frames for the non-AP MLD using delivery-enabled ACs.
* An AP may also set the More Data bit in an Ack frame to 1 in response to a QoS Data frame to indicate that one or more pending BUs that correspond either to Data frames with TIDs that are mapped to this link by the most recent DL TID-to-link mapping (negotiated TID-to-link mapping or default mode mapping, see 35.3.6.1 (TID-to-link mapping)) or to Management frames that are not measurement MMPDUs (see 35.3.10.4 Traffic indication) are buffered at the AP MLD for the non-AP MLD with which the PS STA identified by the RA in the Ack frame is affiliated, if that PS STA has set the More Data Ack subfield in the QoS Info field to 1.
* An AP may also set the More Data bit in a BlockAck or Multi-STA BlockAck frame to 1 to indicate that one or more pending BUs that correspond either to Data frames with TIDs that are mapped to this link by the most recent DL TID-to-link mapping (negotiated TID-to-link mapping or default mode mapping, see 35.3.6.1 (TID-to-link mapping)) or to Management frames that are not measurement MMPDUs (see 35.3.10.4 Traffic indication) are buffered at the AP MLD for the non-AP MLD with which the PS STA identified by the RA in the BlockAck or Multi-STA BlockAck frame is affiliated, if that PS STA has set the More Data Ack subfield in the QoS Info field to 1. An AP indicates support of sending Ack, BlockAck, or Multi-STA BlockAck frames with a nonzero More Data subfield by setting the More Data Ack subfield to 1 in the QoS Info field of frames it transmits.

Unless indicated above, the AP shall set the More Data bit to 0.

***End of change***

h) …

***TGbe editor: Change following paragraphs as follows (from REVmd)*** #1497, #3379, 1001

For a STA that is not affiliated with an non-AP MLD, the AP shall set to 1 the More Data bit of an individually addressed MPDU containing all or part of a BU, using a delivery-enabled AC and destined for that STA, to indicate that more BUs (not including the BU currently being transmitted) are buffered for the delivery-enabled ACs. The AP shall set to 1 the More Data bit of an individually addressed MPDU containing all or part of a BU, using a nondelivery-enabled AC and destined for that STA, to indicate that more BUs (not including the BU currently being transmitted) are buffered for the nondelivery-enabled ACs. In all frames except for the final frame of the SP, the AP shall set the EOSP subfield, if present, to 0 to indicate the continuation of the SP. An AP may also set the More Data bit to 1 in a QoS +CF-Ack frame in response to a QoS Data frame to indicate that it has one or more pending BUs buffered for the target STA identified by the RA in the QoS +CF-Ack frame. If the QoS Data frame is using a delivery-enabled AC, the AP shall set the More Data bit in the QoS +CF-Ack frame to 1 to indicate more BUs (not including the BU currently being transmitted) are buffered for the delivery-enabled ACs. If the QoS Data frame is not using a delivery-enabled AC, the AP shall set the More Data bit in the QoS +CF-Ack frame to 1 to indicate more BUs (not including the BU currently being transmitted) are buffered for the ACs that are not delivery-enabled.

For a STA that is affiliated with a non-AP MLD:

* the AP shall set to 1 the More Data bit of an individually addressed MPDU containing all or part of a BU, using a delivery-enabled AC and destined for that STA, to indicate that more BUs (not including the BU currently being transmitted) that correspond either to Data frames with TIDs that are mapped to this link by the most recent DL TID-to-link mapping (negotiated TID-to-link mapping or default mode mapping, see 35.3.6.1 (TID-to-link mapping)) or to Management frames that are not measurement MMPDUs (see 35.3.10.4 Traffic indication) are buffered for the delivery-enabled ACs at the AP MLD for the non-AP MLD.
* The AP shall set to 1 the More Data bit of an individually addressed MPDU containing all or part of a BU, using a nondelivery-enabled AC and destined for that STA, to indicate that more BUs (not including the BU currently being transmitted) that correspond either to Data frames with TIDs that are mapped to this link by the most recent DL TID-to-link mapping (negotiated TID-to-link mapping or default mode mapping, see 35.3.6.1 (TID-to-link mapping)) or to Management frames that are not measurement MMPDUs (see 35.3.10.4 Traffic indication) are buffered for the nondelivery-enabled ACs at the AP MLD for the non-AP MLD.
* In all frames except for the final frame of the SP, the AP shall set the EOSP subfield, if present, to 0 to indicate the continuation of the SP.

Unless indicated above, the AP shall set the More Data bit to 0.

***End of change***

**11.2.3.7 Receive operation for STAs in PS mode**

***TGbe editor: Change following paragraphs as follows (from REVmd)*** #1497, #3379, 1001

d) For a STA that is not affiliated with a non-AP MLD, if the More Data subfield in the MPDU(s) containing the BU indicates that more traffic for that STA is buffered, the STA, at its convenience, shall poll until no more BUs are buffered for that STA. For a STA that is affiliated with a non-AP MLD operating with default mapping mode (see 35.3.6.1.2 (Default mapping mode)), if the More Data subfield in the MPDU(s) containing the BU indicates that more BUs are buffered for the non-AP MLD, at least one STA affiliated with the non-AP MLD, at its convenience, shall poll until no more BUs are buffered for that non-AP MLD. For a STA that is affiliated with a non-AP MLD operating with a non-default negotiated DL TID-to-link mapping (see 35.3.6.1.3 (Negotiation of TID-to-link mapping)), if the More Data subfield in the MPDU(s) containing the BU indicates that more BUs that correspond either to Data frames with TIDs that are mapped to this link by the negotiated DL TID-to-link mapping or to Management frames that are not measurement MMPDUs (see 35.3.10.4 Traffic indication) are buffered at the AP MLD for the non-AP MLD, at least one STA affiliated with the non-AP MLD that is operating on a link that is in the same link set (see 35.3.6.1.3 (Negotiation of TID-to-link mapping)) as the link on which the STA operates, at its convenience, shall poll until no more BUs are buffered for that non-AP MLD.

***End of change***

e) …

***TGbe editor: Change following paragraphs as follows (from REVmd)*** #1497, #3379, 1001

A STA that stays awake to receive group addressed BUs shall elect to receive all group addressed non-STBC transmissions or all group addressed STBC transmissions and remain awake until the More Data subfield of the appropriate type (non-STBC or STBC) of group addressed BUs indicates there are no further buffered group addressed BUs of that type, or until a TIM is received indicating there are no more buffered group addressed BUs of that type, or until an FMS Descriptor element is received indicating that there are no further buffered group addressed BUs for which the STA has previously received an FMS Response element in a frame that has a value in Address 1 that matches its MAC address or that has an Address 1 value that is a group address corresponding to a group of which it is a member and that was transmitted by the AP with which it is associated and which had an Element Status value in the FMS Status subelement of “Accept”.

If a STA that is not affiliated with a non-AP MLD receives a QoS +CFAck frame from its AP with the More Data bit equal to 1, then the STA shall operate ~~exactly~~ as if it received a TIM with its AID bit equal to 1. If a STA that is not affiliated with a non-AP MLD has set the More Data Ack subfield in the QoS Info field ~~QoS Capability element~~ to 1, then if it receives an Ack frame from its AP with the More Data bit equal to 1, the STA shall operate ~~exactly~~ as if it received a TIM with its AID bit equal to 1. If an HE STA has set the More Data Ack subfield in the QoS Info field to 1, then if it receives a BlockAck or Multi-STA BlockAck frame from its AP with the More Data bit equal to 1, the STA shall operate as if it received a TIM with its AID bit equal to 1. For example, a STA that is using the PS-Poll delivery method shall issue a PS-Poll frame to retrieve a buffered BU.

For a STA that is affiliated with a non-AP MLD operating with default mapping (see 35.3.6.1.2 (default mapping mode):

* If the STA receives a QoS +CFAck frame from its AP with the More Data bit equal to 1, then the non-AP MLD shall operate as if one of its affiliated STA received a TIM with its AID bit equal to 1.
* If the STA has set the More Data Ack subfield in the QoS Info field to 1, then if it receives an Ack frame from its AP with the More Data bit equal to 1, the non-AP MLD shall operate as if one of its affiliated STA received a TIM with its AID bit equal to 1.
* For example, a STA affiliated with the non-AP MLD that is using the PS-Poll delivery method shall issue a PS-Poll frame to retrieve a buffered BU for the non-AP MLD.

See also 10.3.6 (Group addressed MPDU transfer procedure).

***End of change***

**11.2.3.8 Receive operation using APSD**

**…**

***TGbe editor: Change following paragraph starting with “The STA may send additional” as follows (from REVmd)*** #1497, #3379, 1001

d) For a STA that is not affiliated with a non-AP MLD:

* the STA may send additional PS-Poll frames if the More Data subfield is 1 in a downlink individually addressed MPDU containing all or part of a BU that does not use a delivery-enabled AC.
* the STA may send additional trigger frames if the More Data subfield is 1 in a downlink individually addressed MPDU containing all or part of a BU that uses a delivery-enabled AC.

For a STA that is affiliated with a non-AP MLD operating with default mapping (see 35.3.6.1.2 (default mapping mode):

* any STA affiliated with the non-AP MLD may send additional PS-Poll frames to retrieve the buffered BU if the More Data subfield is 1 in a downlink individually addressed MPDU containing all or part of a BU that does not use a delivery-enabled AC.
* any STA affiliated with the non-AP MLD may send additional trigger frames to retrieve the buffered BU if the More Data subfield is 1 in a downlink individually addressed MPDU containing all or part of a BU that uses a delivery-enabled AC.

For a STA that is affiliated with a non-AP MLD operating with a negotiated TID-to-link mapping (see 35.3.6.1.3 (Negotiation of TID-to-link mapping):

* any STA affiliated with the non-AP MLD that is operating on a link that is mapped to any of the TIDs that is also mapped to the link on which the individually addressed MPDU with the more data bit set to 1 is sent (as specified by the most recent DL TID-To-Link mapping) may send additional PS-Poll frames to retrieve the buffered BU if that MPDU containing all or part of a BU that does not use a delivery-enabled AC.
* any STA affiliated with the non-AP MLD that is operating on a link that is mapped to any of the TIDs that is also mapped to the link on which the individually addressed MPDU with the more data bit set to 1 is sent (as specified by the most recent DL TID-To-Link mapping) may send additional trigger frames (with any TID that is mapped to this operating link) to retrieve the buffered BU if that MPDU containing all or part of a BU that uses a delivery-enabled AC.

***End of change***