IEEE P802.11  
Wireless LANs

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| **TGbn D0.1 Comment Resolution for CID 2848, 3026, 3071** |
| **Date:** 2025-05-10 |

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Abstract

This submission proposes resolutions for the following 3 CIDs received for TGbn CC50 Comment Resolution:

* 2848, 3026, 3071

Revisions:

- Rev 0: Initial version of the document.

- Rev 1: Document modification based on D0.3

***Editing instructions formatted like this are intended to be copied into the TGbn Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbn Editor: Editing instructions preceded by “TGbn Editor” are instructions to the TGbn editor to modify existing material in the TGbn draft. As a result of adopting the changes, the TGbn editor will execute the instructions rather than copy them to the TGbn Draft.***

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| **CID** | **Comm**  **enter** | **Cate**  **gory** | **Comment** | **Proposed Change** | **Resolution** |
| 2848 | Mark RISON | G | "over the ds", as an adjective, needs hyphens | As it says in the comment | Revised  This Figure has already been modified by resolutions to CID 142 in 11-25/1105r1.  Note to TGbn Editor: No further figure change is needed by this CID |
| 3026 | Mark RISON | G | "initial control frame" should be "initial Control frame" |  | Accepted.    Note that it has already been fixed in D0.3. TGbn editor to make no change. |
| 3071 | Mark RISON | G | "the DUO mode" should be just "DUO mode" | As it says in the comment | Revised  Agree in principle.  TGbn editor: please implement changes as shown in this document(888r1) tagged #3071 |

**Propose:**

***TGbn editor: Please note that the baseline is 11bn D0.3***

***TGbn editor: Please modify the table 9-663 in subclause 9.7.3 A-MPDU contents as follows***

**9.7.3 A-MPDU contents**

**Table 9-663—A-MPDU contents in the control response context**

|  |  |  |
| --- | --- | --- |
| **MPDU** | **Conditions** | |
| … | … | **…** |
| BlockAck | Compressed BlockAck frame with a TID that  corresponds to an HT-immediate block ack  agreement. See NOTE.  Multi-STA BlockAck frame if the preceding  PPDU:   * is either an HE or EHT TB PPDU   that solicits an immediate response  (see 26.4.4.5 (Responding to an HE  TB PPDU with an SU PPDU)),   * or an HE or EHT PPDU that carries   a multi-TID A-MPDU or ackenabled  multi-TID A-MPDU (see  26.6.3 (Multi-TID AMPDU and ackenabled  single-TID AMPDU)).,   * or if any preceding PPDU in the   TXOP carried a BSRP Trigger frame  addressing a STA that is operating  with (#3071) DUO mode (see 37.12.2  (Dynamic Unavailability Operation  (DUO) mode)) |
| **…** | **…** |

***TGbn editor: Please modify the subclause 37.11.2 Dynamic Unavailability Operaiton (DUO) mode as follows***

**37.12.2 Dynamic Unavailability Operation (DUO) mode**

To enable DUO mode with its associated DUO Supporting AP:

* The DUO non-AP STA shall transmit to the AP an TBD Request frame (TBD) with the DUO Mode

subfield in the frame set to 1

* The AP shall transmit an TBD Response frame, after the AP is ready to serve the non-AP STA in

DUO operation, as a response to the received TBD Request frame, to the non-AP STA.

* It is TBD whether the AP can reject the request to enable (#3071) DUO mode at the STA side and the

enablement procedure is TBD.

To disable DUO mode with its associated DUO Supporting AP:

* The DUO non-AP STA shall transmit a TBD Request frame with the DUO Mode subfield in the

frame set to 0 to the AP.

* The associated AP shall transmit a TBD Response frame, after the AP is no longer serving the non-

AP STA in (#3071) DUO mode, as a response to the received TBD Request frame, to the non-AP STA.

When a DUO non-AP STA is operating in (#3071) DUO mode, then:

* The associated AP that initiates frame exchanges that are neither group addressed Data nor group addressed Management frames with the non-AP STA shall begin the frame exchanges by transmitting an ICF allowed for DUO mode to the non-AP STA.
* The ICF allowed for DUO shall be a BSRP Trigger frame that has either:
  + A User Info field with the AID12 field set to the AID of the STA, and with the GI And HE/

UHR-LTF Type field set to 3 to solicit a non-HT (duplicate) PPDU.

* + A User Info field with the AID12 field set to the AID of the STA, and with the GI And HE/

UHR-LTF Type field not set to 3 to solicit a TB PPDU.

* The BSRP Trigger frame shall have the UL Length field set to a value that is sufficiently large to

allow the STA to include in the PPDU that is sent in response an initial control response frame (ICR)

that can include unavailability information.

* The ICR frame that is allowed for DUO to include the unavailability information is a Multi-STA

BlockAck frame.

A DUO non-AP STA that is operating in (#3071) DUO mode that receives a BSRP Trigger frame from its

associated DUO Supporting AP

* that contains the 12 LSBs of the non-AP STA's AID in any of the User Info fields
* and that solicits a response in TB PPDU format

shall respond following the rules defined in 26.5.5 (Buffer status report operation), except that the DUP non-

AP STA may also aggregate a Multi-STA BlockAck frame along with the one or more QoS Null frames that

are required according to 26.5.5 (Buffer status report operation).

A DUO non-AP STA that is operating in (#3071) DUO mode and that receives, from its associated DUO

Supporting AP, a BSRP Trigger frame that is individually addressed to the STA and solicits a response in

non-HT (duplicate) PPDU format shall respond subject to the rules defined in 26.5.2.5 UL MU CS

mechanism, and the response shall be in non-HT (duplicate) PPDU format and shall include a Multi-STA

BlockAck frame.

A DUO non-AP STA that is operating in (#3071) DUO mode and that is a TXOP responder may indicate, in a

response Multi-STA BlockAck frame, whether the non-AP STA will be unavailable after a specific point in

time and, if known, for how long, by including a Per-AID TID Info field that contains an Unavailability

Target Start Time and Unavailability Duration (see 9.3.1.8.6 (Multi-STA BlockAck variant)).

A DUO non-AP STA that is operating in (#3071) DUO mode and that is a TXOP holder may indicate in a BSRP

Trigger frame whether the non-AP STA will be unavailable after a specific point in time, and, if known, for

how long, by including a TBD User Info field that contains an Unavailability Target Start Time and

Unavailability Duration (see 9.3.1.22 (Trigger frame format)). The DUO non-AP STA may transmit this

BSRP Trigger frame only if certain TBD conditions are true. The response frame to such a BSRP Trigger

frame is a Multi-STA BlockAck frame in non-HT (duplicate) PPDU format.

When a DUO Supporting AP receives from a DUO non-AP STA operating in (#3071) DUO mode a Multi-STA

BlockAck frame addressed to the AP, in response to a preceding BSRP Trigger frame, that includes an

Unavailability Target Start Time field, the UHR AP shall consider the STA as being unavailable:

— from the future target time indicated in the Unavailability Target Start Time field,

— for a duration indicated in the Unavailability Duration field, if the unavailability duration is known,

and until TBD (referring to the conditions for the STA to become available again) if the unavailability

duration is unknown