IEEE P802.11  
Wireless LANs

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| **CC50 Comment Resolutions for 37.x.x.x.x Allowed settings of the Trigger frame fields and TRS Control subfield** |
| **Date:** 2025-04-28 |
| **Author(s):** |

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| --- | --- | --- | --- | --- |
| **Name** | **Affiliation** | **Address** | **Phone** | **Email** |
| Hong Won Lee | LG Electronics | 19, Yangjae-daero 11gil, Seocho-gu, Seoul 137-130, Korea |  | hongwon.lee@lge.com |
| Dongguk Lim |  |  |
| Insun Jang |  |  |
| Sunhee Beak |  |  |
| Geonhwan Kim |  |  |
| Dongju Cha |  |  |
| Yelin Yoon |  |  |
| Jinsoo Choi |  |  |

Abstract

This submission proposes resolutions for comments of TGbn D0.1 with the following 1 CID:

1632

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Cleaned the document and applied the new text with Track Changes on
* Rev 2: There is some change in the Disscussion and proposed text to align with IEEE P802.11bn/D0.2
* Rev 3: A discussion points regarding the UHR TRS Support subfield in the Discussion and new BSRP GI3 rule in the Propose (proposed text) are added

***Editing instructions formatted like this are intended to be copied into the TGbn D0.1 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.***

#### *CID 1632*

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| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 1632 | 38.3.15.5 | 141.35 | Define 37.x.x.x.x (Allowed settings of the Trigger frame  fields and TRS Control subfield) | as in comment | Revised.  Agree with the commenter. The subclause “Allowed settings of the Trigger frame fields and TRS Control subfield” is added  **TGbn editor, please make the changes tagged by CID #1632.** |

**Discussion:**

1. The subclause, 37.x.x.x.x Allowed settings of the Trigger frame fields and TRS Control subfield should be almost same as the subclause, 35.5.2.2.4 Allowed settings of the Trigger frame fields and TRS Control subfield in 35.5.2.2 (Rules for soliciting UL MU frames). This should be referred and additional rules are described in the subclause, 37.x.x.x.x Allowed settings of the Trigger frame fields and TRS Control subfield.
2. Regarding the addition of the UHR TRS Support subfield to the UHR MAC Capabilities Information field in the resolution proposal in this document, we need to examine the usage differences between EHT and UHR. This addition may be necessary because new DRU features introduce distinctions between EHT and UHR. However, we need to verify whether the DRU can actually be applied when a TB PPDU including Control Response(s) is solicited by the TRS Control of a DL MU PPDU.

**Propose:**

***TGbn editor: Please note that the baseline is 11be D7.0. and 11bn D0.2***

**9.4.2.aa2.2 UHR MAC Capabilities Information field**

***TGbn editor: please add a UHR TRS Support subfield to the Figure 9-aa5 and the Table 9-130a***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 | B1 | B2 | B4 | B5 | B6 | B7 | B8 Bx |
|  | DPS Support | DPS Assisting Support | Multi-Link Power Management | NPCA Supported | BSR Enhancement Support | Additional  Mapped  TID  Support | **[#1632]** UHR TRS Support |  |
| Bits: | 1 | 1 | 1 | 1 | 1 |  | 1 | x |

**Figure 9-aa5 —UHR MAC Capabilities Information field format**

**Table 9-130a—Subfields of the UHR MAC Capabilities Information field**

|  |  |  |
| --- | --- | --- |
| **Subfield** | **Definition** | **Encoding** |
| … | … | … |
| **[#1632]** UHR TRS Support | For a non-AP STA, indicates support for transmitting an UHR TB PPDU after receiving a frame with a TRS Control subfield. | For a non-AP STA that has set the +HTC-HE Support subfield to 1:  Set to 1 if the STA supports transmitting an UHR TB PPDU after receiving a frame with a TRS Control subfield.  Set to 0 otherwise.  Reserved for an AP or if the +HTC-HE Sup-port subfield is 0. |
| … | … | … |

***TGbn Editor: Please insert the following subsection in Section 37 of D0.2:***

**37.x.x.x.x Allowed settings of the Trigger frame fields and TRS Control subfield [#1632]**

A UHR AP may transmit a Trigger frame that solicits a UHR TB PPDU from a UHR STA subject to the rules defined in 26.5.2.2 (Rules for soliciting UL MU frames), 35.5.2.2 (Rules for soliciting UL MU frames) and the additional rules defined below.

A UHR AP shall not transmit a Trigger frame that solicits an HE TB PPDU, an EHT TB and a UHR TB PPDU together. A UHR AP shall set the UL Length subfield of a transmitted Trigger frame that solicits a UHR TB PPDU to the value given by Equation (27-11) with, except that TXTIME is defined by Equation (38-xx) in 38.4.3 (TXTIME and PSDU\_LENGTH calculation).

NOTE 1—This is the same rule as that of an AP that transmits a Trigger frame that solicits an HE TB PPDU (see 26.5.2.2.4 (Allowed settings of the Trigger frame fields and TRS Control field)) and EHT TB PPDU (see 35.5.2.2.4 (Allowed settings of the Trigger frame fields and TRS Control subfield)).

An AP shall not send a frame with a TRS Control subfield that solicits a UHR TB PPDU to a non-AP STA from which the AP has not received a UHR MAC Capabilities Information field in the UHR Capabilities element with the UHR TRS Support subfield equal to 1.

A UHR AP may transmit a BSRP Trigger frame that solicits a non-HT (dup) PPDU from a UHR STA subject to the rules defined in 37.12.2 (Dynamic Unavailability Operation (DUO) mode)

A UHR AP shall set a value 0, 1, or 2 to the GI and HE/UHR-LTF Type subfield if the BSRP Trigger frame is addressed to more than one STA. A UHR AP may set any value of the GI and HE/UHR-LTF Type subfield (see Figure 9-90b2) if the BSRP Trigger frame is individually addressed.

An AP shall not send a PPDU that is not an HE PPDU, an EHT PPDU or a UHR PPDU, that carries a TRS Control subfield.