IEEE P802.11
Wireless LANs

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| **TGbe CC36 Comment Resolutions****for Subclause 35.3.5.4 – CID 6729** |
| **Date:** 2021-08-30 |

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Abstract

This submission proposes resolutions for multiple comments on TGbe D1.0 regarding the usage and rules of Multi-Link element in the context of multi-link setup with the CID 6729.

Revisions:

- Rev 0: Initial version of the document.

- Rev 1: Changes some texts based on comments during the call

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 1.1. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe Draft 1.1 (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**

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| 6729 | Rojan Chitrakar | 35.3.5.4 | 257.34 | What about the link in which the (Re-)Association Response frame is sent in? In this case a per-sta profile for that link is not carried in the (Re-)Association Response frame. I assume if a Association response frame is sent with a status of "Success" in a link, that link is always accepted by the AP MLD. | Clarify that the link in which an Association response frame is sent with a status of "Success" is always accepted by the AP MLD. | RevisedAgree in principle with the commenter. The corresponding paragraph was revised by adding how to indicate the Status Code for the link on which (Re)Association Request frame is received. Moreover, to make it clear, the location of Link Info field was specified for (Re)Association Request and Response frames**TGbe editor, please make changes as shown in doc 11-21/1421r1 tagged as CID 6729.**  |

**Proposed spec text:**

**35.3 Multi-link operation**

***TGbe editor: Please modify the subclause 35.3.5.4 (Usage and Rules of Multi-Link element in the context of multi-link (re)setup) as follows:***

***TGbe editor: Please note that the baseline of this subclause 35.3.5.4 is 1221r1***

35.3.5.4. Usage and Rules of Multi-Link element in the context of multi-link (re)setup

For each requested link in addition to the link on which the (Re)Association Request frame is transmitted, the Link Info field (#6729)of the Basic variant Multi-Link element carried in the (Re)Association Request frame shall contain the corresponding Per-STA Profile subelement(s). For each Per-STA Profile subelement included in the Link Info field, the Complete Profile subfield of the STA Control field shall be set to 1 (see 35.3.2.2 (Advertisement of complete or partial per-link information)).

The Link ID subfield of the STA Control field of the Per-STA Profile subelement for the corresponding non-AP STA that requests a link for multi-link (re)setup with the AP MLD is set to the link ID of the AP affiliated with the AP MLD that is operating on that link. The link ID is obtained during multi-link discovery (see 35.3.4 (Discovery of an AP MLD)).

The AP that is affiliated with the AP MLD and that responds to an (Re)Association Request frame which carries a Basic variant Multi-Link element shall include a Basic variant Multi-Link element in the (Re)Association Response frame that it transmits.

The Basic variant Multi-Link element carried in the (Re)Association Response frame shall include the Common Info field and the Link Info field

The Common Info field of the Basic variant Multi-Link element carried in the (Re)Association Response frame shall include the MLD MAC address, the MLD Capabilities, the EML Capabilities, the Link ID Info, and the BSS Parameters Change Count subfields.

NOTE – The presence of the subfields in the Common Info field is signaled via the Multi-Link Control field of the Basic variant Multi-Link element as defined in 9.4.2.295b.2 (Basic variant Multi-Link element).

For each requested link in addition to the link on which the (Re)Association Request frame is transmitted, the Link Info field (#6729)of the Basic variant Multi-Link element carried in the (Re)Association Response frame shall contain the corresponding Per-STA Profile subelement(s). For each Per-STA Profile subelement included in the Link Info field, the Complete Profile subfield of the STA Control field shall be set to 1 (see 35.3.2.2 (Advertisement of complete or partial per-link information)) and the Status Code field included in the STA Profile subfield of the Per-STA Profile subelement shall indicate SUCCESS if the link is accepted or the failure cause if the link is not accepted. (#6729)The Status Code field in the (Re)Association Response frame body shall indicate, as defined in 9.4.1.9 (Status Code field), whether the link on which the (Re)Association Request frame is received is accepted or not.

Do you support to accept the resolution in 11-21/1421r1 for the following CIDs?

- 6729