**IEEE P802.11
Wireless LANs**

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| CR for CIDs 5343 and 5344 |
| Date: 2022-02-26 |
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Abstract

This submission proposes resolutions for multiple comments related to TGbe D1.0 with the following CIDs (2 CIDs):

* 5343, 5344

Revisions:

* R0: Initial version of the document.
* R1: Updated based on the offline comment that asked a correction on the Maximum Number Of Simultaneous Links subfield for the EMLSR operation.

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** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- |
| 5343 | 9.4.2.295a | 132.25 | The Link Id can use values 0-14, so there are at maximum 15 links. The Maximum Number of Simultaneous Links can signal 17 links. Why the maximum numbers Links do not match? | Please clarify the correct range of the number of the links. | Revised- Agree in principle with the comment. The range of the Maximum Number Of Simultaneous Links subfield needs a clarification. TGbe editor to make the changes shown in 11-22/0076r1 under all headings that include CID 5343. |
| **TGbe Editor: *Change Table 9-401h as follows (#CID 5343):*****Table 9-401h—Subfields of the MLD Capabilities field**

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| **Subfield** | **Definition** | **Encoding** |
| Maximum Number Of Simultaneous Links | Indicates the maximum num ber of STAs affiliated with the MLD that support simultaneous transmis- sion or reception of frames on the respective links. | For a non-AP MLD:Set to a value between 0 and 14, which is the maximum number of affili ated STAs in the non-AP MLD that support simultaneous transmission or reception of frames minus 1. The value of 15 is reserved.For an AP MLD:~~, s~~Set to a value between 0 and 14, which is the number of affiliated APs minus 1. The value of 15 is reserved.See 35.3.16.2 (Multi-link device capa- bility signaling. |

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| 5344 | 9.4.2.295a | 132.25 | Why the Maximum Number of Simultaneous Links field is needed? Is there any use for the field and how the field is used? | Please clarify the need of the Maximum Number of Simultaneous Links field or delete it. | Revised- Agree in principle with the comment. The normative statement about the Maximum Number of Simultaneous Links field is needed. TGbe editor to make the changes shown in 11-22/0076r1 under all headings that include CID 5344. |
| **Discussion:** Current 11be draft is missing the normative statement about the Maximum Number Of Simultaneous Links field as in the comment. So, we propose to include the same requrement as speifcied in the 11be SFD:* “A MLD can indicate capability to support exchanging frames simultaneously on a set of affiliated STAs to another MLD.” [Motion 26, [9] and [190]]

And, regarding the Maximum Number Of Simultaneous Links field setting, the following sentence may limit the benefit of the EMLSR opearion. * “An non-AP MLD with dot11EHTEMLSROptionImplemented equal to true shall set the Maximum Number Of Simultaneous Links subfield in the Basic Multi-Link element to 0.”

Since the ELMSR operation is defined on a set of the enabled links, like the STR and NSTR operation, a multi-radio MLD can also use the EMLSR operation. For example, * When the non-AP MLD establishes the MLO setup on 3 links (2.4GHz, 5GHz, and 6 GHz) through concurrent dual radios, one radio operates on 2.4GHz link as a STR mode, another radio can operate on 5GHz and 6 GHz links as an EMLSR mode.

In this scenario, a MLD can transmit or receive on a STR link while it transmits or receives on an eMLSR link.So, we propose to remove the corresponding sentence. **TGbe Editor: *Change paragraphs below of this subclause as follows (#CID 5344):*****35.3.16.2 Multi-link device capability signaling**AP MLD shall set the Maximum Number Of Simultaneous Links subfield in the Basic Multi-Link element to the number of affiliated APs minus 1, in which the number of affiliated APs in the AP MLD shall be greater than 1.If dot11EHTBaseLineFeaturesImplementedOnly is equal to true, an NSTR mobile AP MLD shall set the Maximum Number of Simultaneous Links subfield of the Basic Multi-Link element carried in transmitted Management frames to 1.A single radio non-AP MLD shall set the Maximum Number Of Simultaneous Links subfield in the Basic Multi-Link element carried in transmitted Management frames to 0. ~~An non-AP MLD with dot11EHTEMLSROptionImplemented equal to true shall set the Maximum Number Of Simultaneous Links subfield in the Basic Multi-Link element to 0.~~ (#5344)A multi-radio non-AP MLD shall set the Maximum Number Of Simultaneous Links subfield in the Basic Multi-Link element carried in transmitted Management frames to a value equal to or larger than 1. A MLD shall be capable of simultaneously transmitting or receiving frames on affiliated STAs up to a value indicated in the Maximum Number Of Simultaneous Links subfield in the Basic Multi-Link element plus 1, under the rules defined in subclauses below. (#5344) |