IEEE P802.11
Wireless LANs

|  |
| --- |
| CR for MLD Capabilities and Operation field |
| Date: 2023-03-09 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Yunbo Li | Huawei |  |  | liyunbo@huawei.com |
| Ming Gan |  |  |  |  |
| Yuchen Guo |  |  |  |  |
| Guogang Huang |  |  |  |  |
| Yousi Lin |  |  |  |  |
| Zhenguo Du |  |  |  |  |
| Stephen McCann |  |  |  |  |
| Edward Au |  |  |  |  |
|  |  |  |  |  |

Abstract

This submission proposes comment resolution(s) for the following 8 CID(s) received in LB271 on TGbe D3.0

CIDs:

15116, ~~16577, 16578,~~ 16579, 16580, 16859, 17648, 17650,

Revisions:

* Rev 0: Initial version of the document.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Clause**  | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| ~~16577~~ | ~~Arik Klein~~ | ~~9.4.2.312.2.3~~ | ~~258.65~~ | ~~MLD Capabilities and Operations is a subfield (in the Common Info field of the Basic MLE) and not a field.Please revise as suggested.~~ | ~~Please revise the sentence as follows:" The subfields of the MLD Capabilities and Operations subfield are defined in Table 9-401i (Subfields of theMLD Capabilities and Operations \*subfield\*)."~~ | **~~Revised-~~**~~Agree with the commenter.~~~~TGbe editor to make the changes under tag 16577 in 11-23-0371r0~~  |
| ~~16578~~ | ~~Arik Klein~~ | ~~9.4.2.312.2.3~~ | ~~259.01~~ | ~~MLD Capabilities and Operations is a subfield (in the Common Info field of the Basic MLE) and not a field.Please revise as suggested.~~ | ~~Please revise the sentence as follows:" Table 9-401i -Subfields of the MLD Capabilities and Operations \*subfield\*."~~ | **~~Revised-~~**~~Agree with the commenter.~~~~TGbe editor to make the changes under tag 16578 in 11-23-0371r0~~  |
| 15116 | Ezer MELZER | 9.4.2.312.2.3 | 260.46 | Extended MLD Capabilities and Operations is a subfield (in the Common Info field of the Basic MLE) and not a field. | Please revise the sentence as follows: "The subfields of the Extended MLD Capabilities and Operations subfield are defined in Table 9-401j (Subfields of the Extended MLD Capabilities and Operations \*subfield\*) " | **Revised-**Agree with the commenter.TGbe editor to make the changes under tag 15116 in 11-23-0371r0  |
| 16579 | Arik Klein | 9.4.2.312.2.3 | 260.46 | Extended MLD Capabilities and Operations is a subfield (in the Common Info field of the Basic MLE) and not a field.Please revise as suggested. | Please revise the sentence as follows: "The subfields of the Extended MLD Capabilities and Operations subfield are defined in Table 9-401j (Subfields of the Extended MLD Capabilities and Operations \*subfield\*) " | **Revised-**Agree with the commenter.TGbe editor to make the changes under tag 15116 in 11-23-0371r0  |
| 16580 | Arik Klein | 9.4.2.312.2.3 | 260.49 | Extended MLD Capabilities and Operations is a subfield (in the Common Info field of the Basic MLE) and not a field.Please revise as suggested. | Please revise the sentence as follows: "Table 9-401j--Subfields of the Extended MLD Capabilities and Operations \*subfield\* " | **Revised-**Agree with the commenter.TGbe editor to make the changes under tag 16580 in 11-23-0371r0  |
| 16859 | Mark RISON | 9.4.2.312.2.3 | 0.00 | "the value of 15" should be "the value 15" | As it says in the comment (2x) | **Revised-**Agree with the commenter.TGbe editor to make the changes under tag 16859 in 11-23-0371r0  |
| 17648 | Brian Hart | 9.4.2.312.2.3 | 258.44 | "in a ... frames" | Try "in Beacon, Probe ... frames" | **Revised-**Agree with the commenter.TGbe editor to make the changes under tag 17648 in 11-23-0371r0  |
| 17650 | Brian Hart | 9.4.2.312.2.3 | 260.25 | "frame" is implicitly appended to all listed mgmt frames but really "that is not a ML probe response" only modifies the Probe Response frame. Could be organized more elegantly | Try "in a Beacon frame, (Re)Association Response frame, Authentication frame, or Probe Response frame that is not a multi-link probe response." | **Revised-**Agree with the commenter.TGbe editor to make the changes under tag 17650in 11-23-0371r0  |
|  |  |  |  |  |  |  |

Discussion：

**Proposed spec text**

***TGbe editor: Please make the following changes in subclause 9.4.2.312.2.3 (Common Info field of the Basic Multi-Link element):***

**9.4.2.312.2.3 (Common Info field of the Basic Multi-Link element)**

The MLD Capabilities and Operations subfield is present in the Common Info field of the Basic Multi-Link element carried in Beacon, Probe Response, (Re)Association Request, and (Re)Association Response frames. (#17648)

The subfields of the MLD Capabilities and Operations subfield are defined in Table 9-401i (Subfields of the MLD Capabilities and Operations subfield). (#16577)

**Table 9-401i—Subfields of the MLD Capabilities and Operations subfield (#16578)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Subfield*** |

|  |
| --- |
| Definition |

 |

|  |
| --- |
| Encoding |

 |
|

|  |
| --- |
| Maximum Number Of Simultaneous Links |

 |

|  |
| --- |
| Indicates the maximum number of STAs affiliated with the MLD that support simultaneous transmission 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 affiliated STAs in the non-AP MLD that support simultane­ous transmission or reception of frames minus 1.The value (#16859)15 is reserved.For an AP MLD:Set to a value between 0 and 14, which is the number of affiliated APs minus 1.The value (#16859)15 is reserved.See 35.3.16.2 (Multi-link device capability and operation signaling). |

 |
| ***…*** | ***…*** | ***…*** |

The AP MLD ID subfield indicates the identifier of the AP MLD whose MLD information is carried in the Basic Multi-Link element. The AP MLD ID subfield is not present in the Basic Multi-Link element included in a frame sent by a non-AP STA affiliated with a non-AP MLD. The AP MLD ID subfield is not present in the Basic Multi-Link element when the element is carried in a Beacon frame, (Re)Association Response frame, Authenti­cation frame, or Probe Response frame that is not a multi-link probe response.(#17650) The condition for the presence of the AP MLD ID subfield in a multi-link probe response is defined in 35.3.4.2 (Use of multi-link probe request and response).

The subfields of the Extended MLD Capabilities and Operations subfield are defined in Table 9-401j (Sub­fields of the Extended MLD Capabilities and Operations subfield). (#15116)

**Table 9-401j—Subfields of the Extended MLD Capabilities and Operations subfield (#16580)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Subfield*** |

|  |
| --- |
| Definition |

 |

|  |
| --- |
| Encoding |

 |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Operation Parameter Update Support |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
| Indicates support of operation param­eter update negotiation. |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
| Set to 1 if dot11OperationParameterUp­dateImplemented is true. Set to 0 otherwise.See 35.3.16.2.2 (Non-AP MLD operation parameter update).  |

 |

 |