IEEE P802.11
Wireless LANs

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| 802.11bc LB255 – Resolution for CIDs assigned to Antonio |
| Date: January 29, 2021 |
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 Abstract

This submission proposes resolutions for the following CIDs submitted during LB252 for 11bc D1.0 (7 CIDs):

1612, 1515, 1514, 1505, 1501, 1500, 1499

Revisions:

* Rev 3: Comments including new writing improvements

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Clause Number(C)** | **Page(C)** | **Line(C)** | **Type of Comment** | **Comment** | **Proposed Change** | **Resolution** |
| 1612 | Xiaofei Wang | 9.4.5.100 | 32 | 8 | T | Does "is transmitted again" imply exactly the same information is transmitted? This sentence may be too restricted. In addition, the term Next Schedule is not clear, maybe change it to Next TX Schedule. | change the sentence "The Next Schedule subfield indicates the number of TBTTs until the content by the content ID contained inthe Content ID subfield is transmitted again." into " The Next TX Schedule subfield indicates the number of TBTTs until the expected broadcast of the eBCS identified by the Content ID contained in the Content ID sufield immediately following the current frame." | Revise: Text changed to “The Next Tx Schedule subfield indicates the number of TBTTs until the beacon interval in which the next frame belonging to the EBCS traffic stream, identified by the Content ID subfield, is transmitted. A value of 0 indicates that this transmission occurs in the beacon interval that starts at the next TBTT. A value of 1 indicates that it occurs in the beacon interval that follows that beacon interval. A value of 65535 indicates that there is no specific transmission time.”This change also requires a modification of the Fig 9-bc14, to change Next Schedule to Next Tx Schedule, and of Fig 9-bc15 changing Next Schedule Present to Next Tx Schedule PresentResolution as per comments marked with [CID 1612] in https://mentor.ieee.org/802.11/dcn/21/ 11-21-0079-03-00bc-LB252-cids-assigned-to-aoliva.docx |
| 1515 | Stephen McCann | 9.4.5.100 | 33 | 10 | T | What exactly is the "content" referred to in this sentence? | Change "content" to "broadcast frames" | Revise: The text has been simplified to just state that the Content Destination Address contains a MAC address.Resolution as per comments tagged as [CID 1515] in https://mentor.ieee.org/802.11/dcn/21/ 11-21-0079-03-00bc-LB252-cids-assigned-to-aoliva.docx |
| 1514 | Stephen McCann | 9.4.5.100 | 33 | 10 | T | The current baseline draft 802.11REVmd D5.0 typically does not define a "MAC Address" subfield, for example P1075L58. | Remove Figure 9-bc19 as it is not required. | Revise. Need to modify surrounding text though. Resolution as per comment tagged as [CID1514] in https://mentor.ieee.org/802.11/dcn/21/ 11-21-0079-03-00bc-LB252-cids-assigned-to-aoliva.docx |
| 1505 | Stephen McCann | 9.4.5.100 | 33 | 5 | T | In Figure 9-bc18 the subfield "Destination UDP Port" is not defined in the text | Add some text to define the "Destination UDP Port" beneath Figure 9-bc18. Alternatively the definition on P45L16 could be moved to the text beneath this figure. | Revise: As suggested copy definition from P45L16 but adapt to the cited paragraph.Resolution as per comments marked as [CID1505] in https://mentor.ieee.org/802.11/dcn/21/ 11-21-0079-03-00bc-LB252-cids-assigned-to-aoliva.docx |
| 1501 | Stephen McCann | 9.4.5.100 | 32 | 25 | T | In Figure 9-bc17, the subfield "Destination IPv6 Address" is not defined in the text. | Add some text to define the "Destination IPv6 Address" beneath Figure 9-bc17. | Revise: Added an explanation for Destination IPv6 Address.Resolution as per comments tagged with [CID1501] in https://mentor.ieee.org/802.11/dcn/21/ 11-21-0079-03-00bc-LB252-cids-assigned-to-aoliva.docx |
| 1500 | Stephen McCann | 9.4.5.100 | 32 | 21 | T | In Figure 9-bc16, the subfield "Destination Port" is not defined in the text. | Add some text to define the "Destination Port" beneath Figure 9-bc16. | Revise: Added an explanation for Destination Port in both Figures 9-bc17 and 9-bc16.Resolution as per comments tagged with [CID1500] in https://mentor.ieee.org/802.11/dcn/21/ 11-21-0079-03-00bc-LB252-cids-assigned-to-aoliva.docx |
| 1499 | Stephen McCann | 9.4.5.100 | 32 | 21 | T | In Figure 9-bc16, the subfield "Destination IPv4 Address" is not defined in the text. | Add some text to define the "Destination IPv4 Address" beneath Figure 9-bc16. | Revise: Added an explanation for Destination IPv4 Address.Resolution as per comments marked as [CID1499] in https://mentor.ieee.org/802.11/dcn/21/ 11-21-0079-03-00bc-LB252-cids-assigned-to-aoliva.docx |

Resolution of CID 1612

***TGbc Editor: Change Fig 9-bc14 as follows:***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Control | Content ID | Request Method | Broadcast MACAddress (Optional) | Next Tx Schedule (Optional) [CID 1612] | Time to Termination (Optional) |

Octets: 1 1 1 0 or 6 0 or 8 0 or 2

|  |  |  |  |
| --- | --- | --- | --- |
| Content Destination Address Type (Optional) | Content Destination Address (Optional) | Title Length (Optional | Title (Optional) |

Octets: 0 or 1 variable 0 or 1 variable

**Figure 9-bc14 - Enhanced Broadcast Services Tuple field format**

***TGbc Editor: Modify Fig 9-bc15 as follows:***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 | B1 | B2 | B3 | B4 | B5 | B6-B7 |
|  | Broadcaster MAC Address Present | Next Tx Schedule Present [CID 1612] | Time to Termination Present | Content Destination Address Present | Title Present | Association Required | Reserved |
| Bits: | 1 | 1 | 1 | 1 | 1 | 1 | 2 |

**Figure 9-bc15 Control field format**

***TGbc Editor: Modify lines 5 to 7 of page 31***

1. The Next Tx Schedule Present subfield is set to 1 by a STA to indicate that the Enhanced Broadcast Services Tuple
2. field contains a Next Tx Schedule field. This subfield is set to 0 to indicate that there is no Next Tx Schedule
3. field.

***TGbc Editor: Modify lines 5 to 7 of page 32***

* 1. ~~The Next Schedule subfield indicates the number of TBTTs until the content identified by the content ID~~
	2. ~~contained in the Content ID subfield is transmitted again. A value of 0 indicates that the content identified by the~~
	3. ~~content ID in the Content ID subfield will start to transmit at the next TBTT. A value of 65535 indicates that~~
	4. ~~the content identified by the content ID in the Content ID subfield has no specific transmission starting time.~~
1. The Next Tx Schedule subfield indicates the number of TBTTs until the beacon
2. interval in which the next frame belonging to the EBCS traffic stream, identified by
3. the Content ID subfield, is transmitted. A value of 0 indicates that this transmission
4. occurs in the beacon interval that starts at the next TBTT. A value of 1 indicates that it
5. occurs in the beacon interval that follows that beacon interval. A value of 65535
6. indicates that there is no specific transmission time. [CID1612]

New Resolution of CID 1514 and 1515

***TGbc Editor: remove Fig 9-bc19 and modify lines 8 to 10 of page 33***

1. ~~If the Content Destination Address Type subfield is MAC Address, the format of the Content Destination~~
2. ~~Address subfield is shown in the Figure 9-bc19 (Content Destination Address subfield format for MAC Address). The MAC Address field is the destination MAC Address of the content.~~
3. If the Content Destination Address Type subfield is MAC Address, the Content Destination Address subfield contains a MAC address. [CID1515]

***TGbc Editor: remove Fig 9-bc19 [CID 1514]***

~~MAC Address~~

~~Octets 6~~

1. **~~Figure 9-bc19 Content Destination Address subfield format for MAC Address~~**

Resolution of CID 1505

***TGbc Editor: Add line 8 as shown, on page 33.***

* 1. If the Content Destination Address Type subfield is UDP/hostname, the format of the Content Destination
	2. Address subfield is shown in Figure 9-bc18 (Content Destination Address subfield format for
	3. UDP/hostname). The Hostname Length subfield indicates the length of the Hostname subfield. The
	4. Hostname subfield is the hostname as a UTF-8 string.

|  |  |  |
| --- | --- | --- |
| Hostname Length | Hostname | Destination UDP Port |

Octets 1 variable 2

* 1. **Figure 9-bc18 Content Destination Address subfield format for UDP/hostname (CID 53)**
	2. The Destination UDP Port subfield indicates the UDP port associated with the hostname address
	3. indicated in the Hostname subfield. ~~in little endian format.~~ [CID 1505]
	4. NOTE---The UDP port is encoded per the conventions defined in 9.2.2.

Resolution of CID 1501/1500/1499

***TGbc Editor: Add lines 22 to 27 and 32 to 37 as indicated below.***

1. If the Content Destination Address Type subfield is UDP/IPv4, the format of the Content Destination
2. Address subfield is shown in Figure 9-bc16 (Content Destination Address subfield format for UDP/IPv4).

|  |  |  |
| --- | --- | --- |
|  | Destination IPv4 Address | Destination Port |
| Octets | 4 | 2 |

1. **Figure 9-bc16 Content Destination Address subfield format for UDP/IPv4**
2. The Destination IPv4 Address subfield indicates the IPv4 address used as destination
3. (typically, a multicast IPv4 address) in the broadcast frames for the EBCS
4. identified by the Content ID field. The Destination Port subfield indicates the
5. UDP port associated with the IPv4 address indicated in the Destination IPv4 Address
6. subfield.[CID 1501/1500/1499]
7. NOTE---The UDP port and IP address are encoded per the conventions defined in 9.2.2.
8. If the Content Destination Address Type subfield is UDP/IPv6, the format of the Content Destination
9. Address subfield is shown in Figure 9-bc17 (Content Destination Address subfield format for UDP/IPv6).

|  |  |  |
| --- | --- | --- |
|  | Destination IPv6 Address | Destination Port |
| Octets | 16 | 2 |

1. **Figure 9-bc17 Content Destination Address subfield format for UDP/IPv6**
2. The Destination IPv6 Address subfield indicates the IPv6 address used as destination
3. (typically, a multicast IPv6 address) in the broadcast frames for the EBCS
4. identified by the Content ID field. The Destination Port subfield indicates the
5. UDP port associated with the IPv6 address indicated in the Destination IPv6 Address
6. subfield. [CID 1501/1500/1499]
7. NOTE---The UDP port and IP address are encoded per the conventions defined in 9.2.2.