IEEE P802.11
Wireless LANs

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| 802.11bc LB264 – Resolution for CID 3201, 3200, 3015, 3014, 3095, 3176, 3173, 3172, 3001 |
| Date: May 9, 2022 |
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 Abstract

This submission proposes resolutions for the following CIDs submitted during LB264 for 11bc D3.0: 3201, 3200, 3015, 3014, 3095, 3176, 3173, 3172, 3001

----------------------------------- [CID 3201]-------------------------

1. dot11EBCSSupportActivated OBJECT-TYPE
2. SYNTAX TruthValue
3. MAX-ACCESS read-write
4. STATUS current
5. DESCRIPTION
6. "This is a control variable.
7. It is written by an external management entity or the SME. Changes take
8. effect as soon as practical in the implementation. This attribute when
9. true, indicates ~~that~~ the capability of the STA to ~~operate~~ support Enhanced Broad-
10. cast Services is enabled. The capability is disabled otherwise."
11. DEFVAL {false}
12. ::= { dot11StationConfigEntry <ANA> }

----------------------------------[CID 3200]---------------------------

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| --- | --- | --- | --- | --- |
| \*EBCS4 | EBCS DL negotiation procedures | 11.55.3.8 (EBCS negotiation procedure for unassociated STAs) and 11.55.3.7 (EBCS negotiation procedure for associated STAs) | CFAP AND CFEBCS:MCFSTAofAP AND EBCS1:MCFIndepSTA AND CFEBCS:M | Yes  No N/A  |

-------------------------------------[CID 3015]----------------------------------

***Editor please modify line 31 of page 55 as follows:***

1. The Time To Termination Present subfield is set to 1 by a STA to indicate that the EBCS Tuple field contains a Time To Termination field. This subfield is set to 0 to indicate that there is no Time To Termination field.

-----------------------------------[CID 3014]------------------------------------

**Editor please make sure both parts of figure 9-389b are not divided by text**

The EBCS Tuples field contains one or more EBCS Tuple fields as defined in [Figure 9-839b (EBCS Tuple](#_bookmark37)

48 [field format](#_bookmark37)).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Control | Content ID | Negotiation Method | Content Authentication Algorithm | Content Address Type | Content Address Length | Content Address |
| Octets | 1 | 1 | 1 | 1 | 1 | 1 | variable |

1. ~~The Control field defines which of the optional fields are present in the EBCS Tuple field and is defined in~~
2. [~~Figure 9-839c (Control field format~~](#_bookmark38)~~).~~

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|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Title Length | Title | PHY Type (optional) | Tx Rate (optional) | Next Tx Schedule (optional) | Time To Termination (optional) |
| Octets | 1 | Variable | 0 or 1 | Variable | 0 or 2 | 0 or 2 |

**Figure 9-839b – EBCS Tuple field format**

1. The Control field defines which of the optional fields are present in the EBCS Tuple field and is defined in [Figure 9-839c (Control field format](#_bookmark38)).

-------------------------------------------[CID 3095]--------------------------------

###### Probe ~~Request~~ Response frame format

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1. Insert the following new row at the end of Table 9-~~41~~39 (Probe Response frame body) (header row shown **for convenience.)**

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###### 35 Table 9-~~41~~39—Probe ~~Request~~ Responseframe body

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| **Order** | **Information** | **Notes** |
| <ANA> | EBCS Parameters element | This element is present if dot11EBCSSupportActivated is true and the length of dot11EBCSTrafficStreamTable is larger than 0, oth- erwise not present. |

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--------------------------------------------[CID 3176]---------------------------------

###### EBCS Addressing

EBCS frames shall be addressed using an EBCS Content MAC address or EBCS Info MAC address in the ~~frame~~ MAC header. Both the EBCS Content MAC address and EBCS Info MAC address are multicast addresses with the first three octets set to 01-0F-AC, and the remaining octets generated depending on the type of stream and the content ID.

--------------------------------------------[CID 3172, 3173]---------------------------------

###### 11.22.3.3.1 General

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28 Add the following three new entries at the base of Table 11-14.

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###### 31 Table 11-14—ANQP usage

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| --- | --- | --- | --- | --- |
| **ANQP-element name** | **ANQP-ele- ment (sub- clause)** | **ANQP-****element type** | **BSS** | **IBSS** |
| **AP** | **Non-AP and non- PCP STA** | **STA** |
| EBCS | [9.4.5.30 (EBCS](#_bookmark35) [ANQP-element)](#_bookmark35) | S | T, R, G | R, G | - |
| EBCS Content Request | [9.4.5.31 (EBCS Content Request ANQP-](#_bookmark72) [element)](#_bookmark72) | Q | T, R | T | - |
| EBCS Content Response | [9.4.5.32 (EBCS Content Response](#_bookmark77) [ANQP-element)](#_bookmark77) | S | T | R | - |

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-------------------------------------------[CID 3001]-------------------------

***Editor please make the following change in page 3, line 3***

**Abstract:** This amendment specifies modifications to the IEEE 802.11 medium access control (MAC) specifications that enable enhanced transmission and reception of broadcast ~~data~~ content in an infrastructure BSS both where there is an association between the transmitter(s) and the receiver(s) and in cases where there is no association between transmitter(s) and receiver(s).

**Keywords:** Enhanced Broadcast Services (EBCS)

***Editor please make the following change in page 20, line 24***

1.3 Supplementary information on purpose

***Insert the following at the end of the list:***

-- Defines a mechanism to enable IEEE 802.11 stations to transmit and receive broadcast ~~data~~ content, both in cases where the transmitter(s) and the receiver(s) are associated in an infrastructure BSS and when they are not; and a mechanism to enable uplink ~~data~~ content to be relayed to a specified destination in an external network.

***Editor please make the following change in page 25, line 16***

4.3.31 Enhanced broadcast services

4.3.31.1 General

Enhanced broadcast services (EBCS) provide enhanced transmission and reception of broadcast ~~data~~ content, both where there is an association between the transmitter and the receiver(s) in an infrastructure BSS and in cases where there is no association between transmitter and receiver(s). Further, EBCS provides a service in which an EBCS proxy affiliated with an EBCS STA can relay the contents of a higher layer payload received from an EBCS non-AP STA to a destination typically within an external network. The relaying EBCS proxy can embed additional information.