IEEE P802.11
Wireless LANs

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| 802.11bc LB 264 resolution for CIDs assigned to Abhi |
| Date: March 7, 2022 |
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 Abstract

This submission proposes resolutions for the following 4 comments submitted during LB 264 for 11bc D3.0: 3144, 3021, 3175, 3150

Revisions:

* Rev 0: Initial version of the document.

**3.1 Definitions specific to IEEE Std 802.11**

***TGbc Editor: please add the following definition in alphabetical order:***

[3144, 3150]**enhanced broadcast services (EBCS) relaying station (STA)**: A station (STA) that is affiliated with an EBCS proxy and provides relaying service as described in 4.3.31.3 (EBCS relaying service) and 11.55.4 (EBCS UL procedure).

NOTE – An EBCS relaying STA can be an AP that has established its own infrastructure BSS or a STA that provides a relaying service without establishing an infrastructure BSS.

**4.3.31 Enhanced broadcast services**

***4.3.31.1 General***

***TGbc Editor: please update the following paragraph in this subclause as shown below:***

Enhanced broadcast services (EBCS) provides enhanced transmission and reception of broadcast data, 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 relaying[3144, 3150] 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.

* + - * 1. **EBCS proxy operation**

***TGbc Editor: please update the following paragraph in this subclause as shown below:***

[3144, 3150]An EBCS proxy is a logical component affiliated with an EBCS relaying STA, which might be collocated with the EBCS relaying STA, that can relay an HLP payload carried in an EBCS UL frame received by an EBCS relaying STA to a destination specified in the frame, typically within an external network.

***TGbc Editor: please update the following NOTE in this subclause as shown below:***

[3144, 3150]NOTE 1 —The communication between an EBCS relaying STA and its affiliated EBCS proxy and the communication between an EBCS proxy and a specified destination are out of scope of this standard.

***TGbc Editor: please update the following NOTE in this subclause as shown below:***

[3144, 3150]NOTE 3 – An operator can install one or more EBCS relaying STAs at a certain location with the intention of only providing relaying service. In such a deployment scenario, the EBCS relaying STAs will not beacon or establish an infrastructure BSS.

**4.5.12.3 Example configurations for EBCS proxy**

***TGbc Editor: please update the following paragraph in this subclause as shown below:***

[3144, 3150]The figures shown in this subclause illustrate EBCS APs affiliated with an EBCS proxy to provide relaying service. However, the same explanation would apply if any of the EBCS AP is replaced with an EBCS relaying STA that is affiliated with an EBCS proxy and provides relaying service without establishing an infrastructure BSS.

**6.3.127.3.1 Function**

***TGbc Editor: please update the following paragraph in this subclause as shown below:***

[3144, 3150]This primitive indicates that an EBCS UL frame was received. It is valid only at an EBCS relaying STA.

**9.4.2.26 Extended Capabilities element**

***TGbc Editor: please update the following entry in Table 9-153 as shown below:***

**Table 9-153—Extended Capabilities field**

|  |  |  |
| --- | --- | --- |
| **Bit** | **Information** | **Notes** |
| 91 | EBCS Relaying Supported | An EBCS AP that has dot11EBCSRelayingServiceSupported equal to true sets the EBCS Relaying Supported field to 1. Otherwise, an EBCS AP sets the field to 0. [3144, 3150] |

**11.55.1 Overview**

***TGbc Editor: please update the following paragraph in this subclause as shown below:***

EBCS can be instantiated as a downlink (EBCS DL) or uplink (EBCS UL) service, where EBCS DL means broadcast from an EBCS AP to one or more EBCS receivers[3021] (see 11.55.3 (EBCS DL procedures)) and EBCS UL means broadcast from an EBCS non-AP STA to one or more EBCS [3144, 3021, 3175, 3150]relaying STAs, for subsequent delivery to a specified destination (see 11.55.4 (EBCS UL procedure)). EBCS is not supported for MBSS or GLK.

**11.55.4.1 General**

***TGbc Editor: please update the following paragraph in this subclause as shown below:***

[3144, 3150]The EBCS UL procedure allows a non-AP STA to transmit an EBCS UL frame with the expectation that there exists at least one EBCS relaying STA that would relay the HLP payload carried in the frame to a destination specified in the frame. EBCS UL does not use Data frames and the EBCS DL Filtering block in Figure 5-1 does not apply.

**11.55.3.2** **EBCS UL operation at an EBCS relaying** **STA**[3144, 3150]

***TGbc Editor: please update the contents of this subclause as shown below:***

[3144, 3150]An EBCS relaying STA provides access to a relaying service (via its affiliated EBCS proxy) in which the HLP payload carried in an EBCS UL frame received from an EBCS non-AP STA is relayed to a destination specified in the frame (see 4.5.12.2 (EBCS proxy operation) and 11.55.3.4 (EBCS UL operation at an EBCS proxy)).

[3144, 3150]NOTE 1 – An EBCS relaying STA can be an AP that has established its own infrastructure BSS or a STA that provides a relaying service without establishing an infrastructure BSS.

NOTE 2 – An EBCS AP that relays an HLP payload to the specified destination via its EBCS proxy can be in an unassociated state with the non-AP STA that transmitted the EBCS UL frame carrying the HLP payload.

[3144, 3150]An EBCS relaying STA shall have dot11EBCSRelayingServiceSupported equal to true. Otherwise dot11EBCSRelayingServiceSupported shall not be true. Among all APs in a multiple BSSID set, only the AP corresponding to the transmitted BSSID may be affiliated with an EBCS proxy. Among all APs in a co-hosted BSSID set, only one AP may be affiliated with an EBCS proxy.

[3144, 3150]An EBCS relaying STA may filter traffic based on the value carried in the Address 3 field of a received frame to determine that the frame is an EBCS UL frame. An EBCS relaying STA may filter traffic based on the value carried in the Address 1 field of a received EBCS UL frame.

**C.3 MIB detail**

***TGbc Editor: please update the following entry in this subclause as shown below:***

dot11EBCSRelayingServiceSupported OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.

Its value is determined by device capabilities. This attribute when true, indicates that the EBCS [3144, 3150]relaying STA is affiliated with an EBCS proxy that provides relaying service. The capability is disabled otherwise."

::= { dot11StationConfigEntry <ANA+10> }