IEEE P802.11
Wireless LANs

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| Revision of Enhanced Broadcast Request/Response ANQP-element  |
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Abstract

This submission modifies the Enhanced Broadcast Request and Response ANQP elements so registration and de-registration is per service. It also proposes a simplification of the frame, such that only the Content ID of the service needs to be transmitted in order to request its transmission.

**9.4.5.bc1. Enhanced Broadcast Request ANQP-element**

The Enhanced Broadcast Request ANQP-element transmits a register (or de-register) request from a STA to a peer STA to receive (or stop receiving) enhanced broadcast services that are available from the peer STA. The format of the Enhanced Broadcast Request ANQP-element is defined in Figure 9-bc11 (Enhanced Broadcast Request ANQP-element format).

|  |  |  |  |
| --- | --- | --- | --- |
|  | Info ID | Length | Enhanced Broadcast ServicesRequest Tuples |
| Octets: | 2 | 2 | variable |

**Figure 9-bc11 - Enhanced Broadcast Request ANQP-element format**

The Info ID and Length fields are defined in 9.4.5.1 (General).

The format of the Enhanced Broadcast Services Request Tuples field is defined in Figure 9-bcX (Enhanced Broadcast Services Request Tuples).

|  |  |  |
| --- | --- | --- |
|  | BroadcastAction | Content ID |
| Octets: | 1 | 1 |

**Figure 9-bcX – Enhanced Broadcast Services Request Tuples format**

The Broadcast Action field is a 1 octet field with values defined in Table 9-bc12:

**Table 9-bc12 – Broadcast Action field values**

|  |  |
| --- | --- |
| Value | Description |
| 0 – 1 | Reserved |
| 2 | Register to receive broadcast |
| 3 | Unregister from receiving broadcast |
| 4 | Register with Broadcast Service(s) identified by Content ID |
| 5 | Unregister Broadcast Service(s) identified by Content ID |
| 6 - 7 | Reserved |

The Content ID subfield indicates the identifier of the content.

**9.4.5.bc2. Enhanced Broadcast Response ANQP-element**

The Enhanced Broadcast Response ANQP-element provides a list of zero or more enhanced broadcast services that are available from a peer STA. The format of the Enhanced Broadcast Response ANQP-element is defined in Figure 9-bc13 (Enhanced Broadcast Response ANQP-element format).

|  |  |  |  |
| --- | --- | --- | --- |
|  | Info ID | Length | Enhanced Broadcast ServicesResponse Tuples(Optional) |
| Octets: | 2 | 2 | variable |

**Figure 9-bc13 - Enhanced Broadcast Response ANQP-element format**

The Info ID and Length fields are defined in 9.4.5.1 (General).

The Enhanced Broadcast Services Response Tuples field contains one or more Enhanced Broadcast Services Response Tuple fields. The Enhanced Broadcast Services Response Tuple field is defined as shown in Figure 9-bc18.

|  |  |  |
| --- | --- | --- |
|  | Content ID | Broadcast Service Transmitting |
| Octets: | 1 | 1 |

**Figure 9-bc18 - Enhanced Broadcast Services Response Tuple format**

The Broadcast Service Transmitting field indicates whether the Enhanced Broadcast Service referenced by the Content ID field is being transmitted. A value of 1 indicates that the Broadcast Service is being transmitted and a value of 0 indicates that the Broadcast Service is not being transmitted.