IEEE P802.11
Wireless LANs

|  |
| --- |
| Comment Resolution for Miscellaneous Comments |
| Date: 2018-11-12 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Taewon Song | LG Electronics | 19, Yangjae-daero 11gil, Seocho-gu, Seoul 137-130, Korea |  | taewon.song@lge.com |
| Suhwook Kim |  | suhwook.kim@lge.com |
| Jeongki Kim |  | jeongki.kim@lge.com |

Abstract

This submission proposes resolutions for multiple comments related to TGba D1.0 with the following CIDs:

* 18, 19, 79, 150, 434, 458, 522, 606, 641, 716, 784, 845, 910, 1160 (14 CIDs)

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Take the presented CR (18-1881r2) into consideration (Rolled back from Co-Located WUR AP subfield to Transmitting WUR AP subfield, changed WUR AP subfield to WUR AP Parameters subfield).

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGba D1.0 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGba D1.0 Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

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

***CID - 18, 19, 79, 150, 434, 458, 522, 606, 641, 716, 784, 845, 910, 1160***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 18 | 9.4.2.276 | 36.63 | The reading of the WUR Discovery Period field is based on TU (time units). What the value of the and range of the TUs |  | Rejected—A unit for the TU is 1024us, which is defined in baseline spec. See 3.1 Definitions of 802.11 baseline. |
| 19 | 9.4.2.276 | 36.64 | The sentence" The value of zero is reserved" which field is it referenced too? Clarify |  | Rejected—Since the paragraph containing the sentence “The value of zero is reserved.” is regarding WUR Discovery Period field, it is obvious that the value stands for the period of WUR Discovery frame.  |
| 79 | 9.4.2.276 | 35.23 | Odd bit name. Bitmap Control indicates the presence of the BSSID? Seems there has been the introduction of more presences. So please fix the definition of the field. | As in comment. | Revised—Agree in general with the comment. Please refer to CID 716.TGba editor, please make the changes shown in 11-18/1886r1 under all headings that include CID 716. |
| 150 | 31.10 | 64.04 | I am not certain the AP can guarantee that it will be able to periodically transmit WUR Discovery frames. Please clarify that the AP schedules for transmission unless it has something else to do. Please align the descriptions in this subclause for consistency. | As in comment. | Revised—Agree in general with the comment. We revised the paragraph on 31.10 WUR Discovery and added a note to clarify transmission procedure of WUR Discovery frame.TGba editor to make the changes shown in 11-18/1886r1 under all headings that include CID 150. |
| 434 | 31.10 | 64.11 | Please clarify the timing of the WUR Discovery frames. Is there similar target transmission time as with Beacons, i.e. TBTT and devices try to transmit WUR Discovery frames at target time, or is one WUR Discovery frame transmitted at any time as long as the average transmission interval is once in every WUR Discovery Period. | Please clarify. | Revised—Agree in general with the comment. How to periodically transmit the WUR Discovery frame is the same with the way how the WUR Beacon is transmitted. Please refer to CID 150.TGba editor to make the changes shown in 11-18/1886r1 under all headings that include CID 150. |
| 458 | 9.4.2.276  | 36.62 | WUR Discovery Period field units are not defined. | The time units (TUs) for this field needs to be defined or clearly referenced. | Rejected—A unit for the TU is 1024us, which is defined in baseline spec. Please refer to CID 18. |
| 522 | 9.4.2.276 | 36.23 | The Bitmap Control field is not only used to indicate the presence of the BSSID field. | delete "The Bitmap Control field indicates the presence of the BSSID field." | Revised—Agree in general with the comment. Please refer to CID 716.TGba editor, please make the changes shown in 11-18/1886r1 under all headings that include CID 716. |
| 606 | 9.4.2.276 | 36.23 | "The Bitmap Control field indicates the presence of the BSSID field." It also indicates other things, all as described below. This is redundant and incomplete. | Delete the cited sentence. | Revised—Agree in general with the comment. Please refer to CID 716.TGba editor, please make the changes shown in 11-18/1886r1 under all headings that include CID 716. |
| 641 | 31.10 | 64.04 | The periodicity of transmission of WUR Discovery frames is not specified nor controllable via the MIB. | Define a means to control the periodicity of WUR Discovery frame transmission. The simplest means would be to add a MIB attribute dot11WURDiscoveryPeriod, with the same behavior as dot11WURBeaconPeriod, except pertaining to transmission of WUR Discovery frames. | Revised—Agree in general with the comment. We Define a MIB attribute for consistency.TGba editor, please make the changes shown in 11-18/1886r1 under all headings that include CID 641. |
| 716 | 9.4.2.276 | 36.23 | The following sentence is incorrect: "The Bitmap Control field indicates the presence of the BSSID field." The sentence should be replaced with the following "The Bitmap Control field indicates the presence of the Short-SSID field, the BSSID field, and the WUR Discovery Period field." | As shown in the comment. | Revised—Agree in general with the comment. Modify the corresponding text to clarify it.TGba editor, please make the changes shown in 11-18/1886r1 under all headings that include CID 716. |
| 784 | 9.4.2.276 | 36.23 | The sentence "The Bitmap Control field indicates the presence of the BSSID field" is not accurate. In reality the Bitmap Control field indicates the presence or absence of all the sub-fields that follow. | update the sentence to reflect the real use of the field. | Revised—Agree in general with the comment. Please refer to CID 716.TGba editor, please make the changes shown in 11-18/1886r1 under all headings that include CID 716. |
| 845 | 9.4.2.276 | 36.23 | The Bitmap Control field should be renamed as WUR AP Subfield Control | As in comment. | Revised—Since the WUR AP Subfield is renamed as WUR AP Parameters Subfield, the Bitmap Control is renamed as WUR AP Parameters Subfield.TGba editor to make the changes shown in 11-18/1886r1 under all headings that include CID 845. |
| 910 | 31.10 | 64.10 | WUR Discovery Period is not defined. | Change the sentence as:WUR Discovery frames shall be generated for transmission by the WUR AP with a periodicity as indicated in the WUR Discovery Period field in the WUR AP subfield of the WUR Discovery element in which the Transmitting WUR AP subfield is set to 1. | Accepted—TGba editor to make the changes shown in 11-18/1886r1 under all headings that include CID 910. |
| 1160 | 9.4.2.276 | 36.23 | Fields other than the BSSID field are missing in "The Bitmap Control field indicates the presence of the BSSID field" | Change to "The Bitmap Control field indicates whether the WUR AP Information subfield identifies the WUR AP's own WUR discovery channel or not, the presence of the Short-SSID field, the BSSID field and the WUR Discovery Period field." | Revised—Agree in general with the comment. Refer to CID 716.TGba editor to make the changes shown in 11-18/1886r1 under all headings that include CID 716. |

**Discussion: *None***

**TGax Editor: *Change 9.4.2.276 WUR Discovery element, 31.10 WUR Discovery, and C.3 MIB Detail as follows:***

9.4.2.276 WUR Discovery element

**TGba Editor*: Please make the following changes in Figure 9-751k of D1.0 as follows:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | WUR AP Parameters Control (#845) | Short-SSID | BSSID | WUR Discovery Period |
| Octets: | 1 | 0 or 4 | 0 or 6 | 0 or 2 |

**Figure 9-751k – WUR AP Parameters subfield format**

**TGba Editor*: Please make the following changes in 36.23 of D1.0 as follows:***

The WUR AP Parameters Control (#845) field indicates the presence of the Short-SSID field, the BSSID field, and the WUR Discovery Period field (#79, 522, 606, 716, 784, 1160). The format of the WUR AP Parameters Control field is shown in Figure 9-751l (The WUR AP Parameters Control field format).

**TGba Editor*: Please make the following changes in Figure 9-751l of D1.0 as follows:***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | B0 | B1 | B2 | B3 | B4 B7 |
|  | Transmitting WUR AP | Short-SSID Present | BSSID Present | WUR Discovery Period Present | Reserved |
| Bits: | 1 | 1 | 1 | 1 | 4 |

**Figure 9-751l – WUR AP Parameters Control field format**

31.10 WUR Discovery

**TGba Editor*: Please make the following changes in 64.3 of D1.0 as follows:***

A WUR AP with dot11WURDiscoveryImplemented equal to true shall periodically schedule (#150, 434) WUR Discovery frames on the WUR AP’s WUR discovery channel for transmission (#150, 434) to assist WUR STAs in WUR AP discovery. The WUR AP’s WUR discovery channel is indicated in the transmitted WUR Discovery elements by the WUR Discovery Operating Class and WUR Discovery Channel fields in the WUR AP Information subfield in which the Transmitting WUR AP subfield is set to 1. WUR Discovery frames shall be scheduled (#150, 434) for transmission by the WUR AP with a periodicity as indicated in the WUR Discovery Period field in the WUR AP Parameters subfield of the WUR Discovery element in which the Transmitting WUR AP subfield is set to 1 (#910). The WUR discovery channel(s) that are used to transmit the WUR Discovery frames should be selected from channel 1 in the 2.4 GHz frequency band and channel 40, 44, 149 and 153 in the 5 GHz frequency band as specified in Table E-4 in Annex E.

NOTE—Though the transmission of a WUR Discovery frame might be delayed because of CSMA deferrals, subsequent WUR Discovery frames are scheduled at the undelayed nominal WUR Discover Period value indicated in the WUR AP Parameters subfield. (#150, 434)

**C.3 MIB Detail**

**TGba Editor*: Please make the following changes in 101.17 of D1.0 as follows:***

Dot11StationConfigEntry ::= SEQUENCE

 {

 …,

 dot11S1GOptionImplemented TruthValue,

 dot11WUROptionImplemented TruthValue,

 dot11WURBeaconPeriod Unsigned32,

 dot11WURChannelSwitchImplemented TruthValue,

 dot11WURDiscoveryImplemented TruthValue,

 dot11WURNeighborDiscoveryImplemented TruthValue,

 dot11WURDiscoveryPeriod Unsigned32, (#641)

 }

 }

**TGba Editor*: Please insert the following after the last pharagraph of D1.0:***

dot11WURDiscoveryPeriod OBJECT-TYPE

 SYNTAX Unsigned32(1..65535)

 MAX-ACCESS read-write

 STATUS current

 DESCRIPTION

 "This is a control variable. It is written by an external management entity. Changes take effect for the next MLME-START.request primitive. For WUR STAs, this attribute specifies the number of TUs that a station uses for scheduling WUR Discovery transmissions. This value is transmitted in Beacon or Probe Response frames."

::= { dot11StationConfigEntry 191} (#641)