**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |  |
| --- | --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **P802.15.4 Rev Proposed Comment Resolutions** | |
| Date Submitted | [9 September, 2014] | |
| Source | [Kunal Shah] [Silver Spring Networks] [ ] | Voice: [ ] Fax: [ ] E-mail: [kshah @ silverspringnet.com] |
| Re: | [Proposed Comment Resolutions to CID #’s 82, 633, 84, 85, 634, 803, 86, 636, 637, 87, 323, 626, 78] | |
| Abstract | [Working document] | |
| Purpose | [Resolve LB94 received comments] | |
| Notice | This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. | |
| Release | The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.15. | |

**Proposed Comment Resolutions to CID #’s**

**(82, 633, 84, 85, 634, 803, 86, 636, 637,**

**87, 323, 626, 78)**

**CID 82**

Comment: That is not true, we should adopt and reference a specific encoding standard, e.g., ISO/IEC 646:1991. Otherwise, the field is meaningless as two implementations could interpret it differently.

Proposed Change: Adopt ISO/IEC 646:1991

**Proposed Resolution:** Accept in Principle

Change the sentence to "The encoding of characters into the ID Value field is defined by regulators or can be vendor specific, and it is outside the scope of this standard."

**CID 633**

Comment: The location ID field is not based on the IETF RFC 6225. Change the sentence from "The Location ID field provides an ID of a particular location, based on IETF RFC 6225, for which a device is requesting channel list info." to "The Location ID field provides an ID of a particular location, for which a device is requesting channel list info."

Proposed Change: Change as suggested.

**Proposed Resolution:** Accept in Principle

Change the sentence to "The Location ID field provides an ID of a particular location, for which a device is requesting channel list info. This field is used as part of the channel list response to allocate available channel info to a particular location ID.

**CID 84**

Comment: Number of Locations field: Above it says that there is “a device location IE”, here it seems to imply that there is more than one. In any event, there is no reason to list the number of device locations IEs in the frame as that is already known to the receiving device.

Proposed Change: Change the number of locations field to be a reserved field.

**Proposed Resolution:** Accept in Principle

This field is used as part of the response to let the receiving device know the available channel info is included in the response for particular number of locations.

Change the sentence to" The Number of Locations field shall be present when Channel List Request/ Response field is set to one and shall be set to zero otherwise. This field indicates the number of locations for which the channel info is available.”

**CID 85**

Comment: Channel List Info field: Are the supposed to be more than just one Available Channel Description? It is not clear from the text.

Proposed Change: If only one Channel List Info field is correct, then no change, otherwise the figure needs to be updated to reflect this.

**Proposed Resolution:** Accept in Principle

"Change the text on page 184 line 17-54 as follows,

Channel List info field shall be present when Channel Info Status value is a response. Each entry in the Channel List Info field contains information for each valid location ID as shown in Figure 180.

|  |  |  |  |
| --- | --- | --- | --- |
| **Octets: 1** | **1** | **1** | **Variable** |
| Location ID | Channel List Status | Number of TVWS Channel(s) | Available Channel Description(s) |

**Figure** **180—Channel List Info field format**

Channel List Status field values are given in Table 45.

**Table 45—Channel List Status field values**

|  |  |
| --- | --- |
| **Status** | **Description** |
| 0 | Available channel list verified for a device location |
| 1 | Request not successful due to device ID not being verified |
| 2 | Request not successful due to device location being out of the geographic coordinate |
| 3 | Request not successful due to one or more parameters having invalid values |
| 4–255 | Reserved |

When the Channel List Status field indicates that there is a available channel list for verified device location, the Number of TVWS Channel(s) and TVWS Available Channel Description(s) fields are included in the IE for each verified device location. For other status values these fields are not present.

The Available Channel Description field shall be formatted as shown in Figure 181.

|  |  |  |
| --- | --- | --- |
| **Octets: 5** | **1** | **2** |
| Available Frequency Range | Maximum TX Power | Valid Time |

**Figure 181****—Available Channel Description field format**

**CID 634**

Comment: The field name should be "Available Channel Descriptor field" instead of "Available Channel" field.

Proposed Change: Change the name of the field both in the sentence and in Figure heading to Available Channel Descriptor field".

**Proposed Resolution:** Accept in Principle

Resolved as per CID 85

**CID 803**

Comment: Does "Available Channel field" refer to the "Available Channel Description" field in figure 180?

Proposed Change: Use the same wording in this line, figure 180 and in the title of figure 181 for consistency

**Proposed Resolution:** Accept in Principle

Resolved as per CID 85

**CID 86**

Comment: Maximum TX Power field: Is this field an unsigned integer, offset from -64 dBm, 2’s complement? How is the power measured, it is power delivered to the antenna or EIRP?

Proposed Change: Define it to be 2's complement EIRP in 0.5 dBm

**Proposed Resolution:** Accept in Principle

Change the sentence to, “The Maximum TX Power field contains the maximum allowed transmit power authorized for TVWS channel, 2's complement EIRP in 0.5 dBm increments, in the range of –64 dBm to 63.5 dBm.”

**CID 636**

Comment: The field should be included as defined in the figure. Change the Field in figure 184 from "Available channel present" to "Known Source Available channel Present".

Proposed Change: Change as suggested.

**Proposed Resolution:** Accept in Principle

Change the Figure 184 as follows,

|  |  |  |  |
| --- | --- | --- | --- |
| **Bits: 0** | **1** | **2** | **3-7** |
| Location Present | Address Present | Available Channel Present | Reserved |

**Figure 184—Source Info field format**

Change the sentences on page 185, line 42-47 to,

Location Present field shall be set to one if the Known Source Location field is present and shall be set to zero otherwise.

Address Present field shall be set to one if the Known Source Address field is present and shall be set to zero otherwise."

**CID 637**

Comment: Combine the sentences for the field description to describe at one place for all the field specified in Figure 184.

Proposed Change: Include the reference.

**Proposed Resolution:** Accept in Principle

Move sentences from page 185, line 51 - page 186, line 2 to after figure183.

**CID 87**

Comment: Channel Availability Starting Time field: Do we have a cross reference for how this field is formatted?

Proposed Change: Add a cross reference or normative reference for this filed.

**Proposed Resolution:** Accept in Principle

Change the sentence to, “The Channel Availability Starting Time field indicates the starting time in Coordinated Universal Time (UTC) from when the channel indicated in the Channel Number field is available for operation. UTC is defined by the CCIR Recommendation 460-4.”

Note to editor: Also include UTC to the acronym section.

**CID 323**

Comment: "Table 67 -parameter name ""numberOfChannels"" is also the name of a PIB attribute in Table 182."

Proposed Change: Change name of parameter to "numberOfWSChannels"

**Proposed Resolution:** Accept in Principle

Change the name of the parameter on page 234, Table 67, line 50 to “NumberofTVWSChannels”.

Replace the paragraph on page 184, line 44-46 with “When the Channel Info Status field indicates that this is a response with available channel list for verified device locations, the Number of TVWS Channels and TVWS Available Channel Description fields are included in the IE. For other status values these fields are not present.”

**CID 626**

Comment: Shouldn't the PHY Type Descriptor length be 2 octets instead of variable?

Proposed Change: Fix the length in Figure 153.

**Proposed Resolution:** Reject

PHY Type Descriptor field can be variable when All Frequency Bands field in PHY Type Descriptor field is set to zero, the optional specific frequency bands field is present and it only includes the frequency bands that are declared in the specific frequency bands field. When PHY Type Descriptor field is variable, the length of the SUN PHY Capabilities IE can be computed as specified. No Change required.

**CID 78**

Comment: “The value of the SUN PHY Capabilities IE length field is computed as follows” Are our implementers too stupid to calculate this for themselves?

Proposed Change: Delete.

**Proposed Resolution:** Reject

Resolved as per CID 626