IEEE P802.11
Wireless LANs

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| Proposed Resolution for CID 1104, 1177, 1416, 1211, 1241, 1459 on GAS Configuration Sequence Number |
| Date: 2013-05-10 |
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Abstract

This submission proposes a resolution for CIDs 1104, 1177, 1416, 1211, 1241, 1459 to allow an AP to notify a STA of the current ANQP Configuration Sequence Number and corresponding Configuration set.

**8.3.3.2 Beacon frame format**

*Instructions to Editor: Modify Table 8-20 as shown as following*

The frame body of a management frame of subtype Beacon contains the information shown in Table 8-20.

**Table 8-20—Beacon frame body**

|  |  |  |
| --- | --- | --- |
| Order | Information | Notes |
| 203 | ANQP Configuration Sequence Number (8.4.2.175) | ANQP Configuration Sequence Number element is optionally present when dot11FILSActivated is true. |

* + - 1. **Probe Response frame format**

*Instructions to Editor: modify the element of GAS configuration number in Table 8-27 as shown with track changes.*

The frame body of a management frame of subtype Probe Response contains the information shown in Table 8-27.

**Table 8-27—Probe Response frame body**

|  |  |  |
| --- | --- | --- |
| Order | **Information** | **Notes** |
| 70 | ANQP Configuration Sequence Number (8.4.2.ai1) | ANQP Configuration Sequence Number element is optionally present when dot11FILSActivated is true. |

**8.4.2 Information elements**

**8.4.2.1 General**

*Instructions to Editor: Add new element to Table 8-54 as shown as follows.*

Table 8-54 Element IDs

|  |  |  |  |
| --- | --- | --- | --- |
| Element  | Element ID | Length of Indicated element | Extensible |
| ANQP Configuration Sequence Number (8.4.2.175) | ANA | 4 |  |
|  |  |  |  |

8.4.2.175 ANQP Configuration Sequence Number element

*Instructions to Editor: repleace the new clause of 8.4.2.1751as follows.*

ANQP Configuration Sequence Number element provides the current version number of the ANQP configuration set represented ANQP information, which can be acquired by ANQP query.

|  |  |  |  |
| --- | --- | --- | --- |
| Element ID | Length | ANQP Configuration sequence number  | Scope |

Octects: 1 1 1 1

The element ID for this element is set to the value specified in Table 8-54.

The Length of the element is 1 byte and it indicates the total length in Octets of the remaining fields in the element. The ANQP configuration sequence number is 1-octet and indicates the current version number of the ANQP configuration set represented supported ANQP information, which can be acquired by ANQP query. The ANQP configuration sequence number changes when the ANQP Configuration set element changes or any value of the ANQP configuration set represented ANQP information changes.

The Scope is a 1-octet field that indicates the valid scope of the ANQP configuration sequence number represented ANQP information. A field value of 0 indicates the ANQP configuration sequence number represented ANQP information only valid in the BSSID, a field value of 1indicates the ANQP configuration sequence number represented ANQP information valid in HESSID, and a field value of 2 indicates the ANQP configuration sequence number represented ANQP information valid in SSID. Field value of 3-255 are reserved.

**8.4.4** Access Network Query Protocol (ANQP) elements

*Instructions to Editor: Add new element to Table 8-184 as shown as follows.*

Table 8-184 - ANQP-element definitions

|  |  |  |
| --- | --- | --- |
| ANQP-element name | InfoID | ANQP-element (subclause) |
| Configuration Set  | ANA | 8.4.4.ai2 |

8.4.4.ai2 Configuration Set

*Instructions to Editor: Add new clause of 8.4.4.ai2 as shown as follows.*

The Configuration Set element provides the ANQP configuration sequence number represented ANQP Configuration Set.

Fig. 8.ai 01 Configuration Set

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Info ID | Length | ANQP Configuration sequence number | ANQP element 1 | … | ANQP element n |

Octets: 2 2 1 variable variable

The Info ID value is equal to the value in Table 8-184.

The Length field is 2 Octets whose value is set to the length in Octets of remaining fields.

The ANQP Configuration Sequence Number is a 1-octet field and it indicates the current ANQP configuration sequence number. The ANQP configuration sequence number changes when the ANQP Configuration set element changes or any value of the ANQP configuration set represented ANQP information changes.

The ANQP element is defined in Figure 8-403.

**10.24.3.2 ANQP procedures**

**10.24.3.2.1 General***Insert the following textat the beginning of 10.24.3.2.1:*

The ANQP configuration sequence number element may be included in Beacon or probe response to reduce ANQP exchanges when dot11InterworkingServiceActivated is true and dot11FILSActivated is true.

When an AP receives the ANQP query for Configuration Set the AP may include ANQP Configuration Sequence Number element in the response.

The AP increments the ANQP Configuration Sequence number by 1 when there is any change in the ANQP Configuration Set.

If the current received ANQP configuration sequence number equals to the stored value of ANQP configuration sequence number of the same AP, the STA should not initiate a ANQP query request to the AP and shall use the stored ANQP information instead.

**Motion-1:** Move to authorize the Editor to incorporate the text changes proposed in contribution 11-13-0603-00-00ai to the draft TGai Specification Document.

Yes: \_\_\_\_\_\_\_\_\_\_\_\_;  No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_;  Abstain: \_\_\_\_\_\_\_\_\_\_\_\_\_

[Result of Motion]