IEEE P802.11
Wireless LANs

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| --- |
|  Text of ANQP element provisioning  |
| Date: 2013-03-10 |
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Abstract

The submission provides the definition of ANQP List information element which provides a means for ANQP information provisioning. The AP may add the most requested ANQP information elements in beacon, or FILS frame or Probe Response as a means of reducing the overhead related to the GAS requests and responses.

**8.3.3.2 Beacon frame format**

*Instructions to Editor: Append the Clause 8.3.3.2 with the following text:*

|  |  |  |
| --- | --- | --- |
| ***Order*** | ***Information*** | ***Notes***  |
| *ANQP\_List*  | *ANA* |  *One or multiple ANQP information elements are provided if many GAS requests are received for the specific ANQP IE and dot11InterworkingServiceActivated is true and dot11AdaptiveANQPBeaconElement is true* |
|  |  |  |

**8.4.2 Information elements**

**8.4.2.1 General**

*Instructions to Editor: Append the Clause 8.4.2.1 with the following text:*

**Table 8-54ai—Element IDs**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Element***  | ***Element ID***  | ***Length of indicated******element (in octets)***  | ***Extensible*** |
| *ANQP\_List*  | *ANA* | *0-255* | *yes* |
|  |  |  |  |

**8.4.2.121 ANQP\_List element**

The ANQP\_List information element includes one or more ANQP values for which IDs are specified in Table 8-184ai01—ANQP-element definitions. If the ANQP value is too long to be comprised in an information element the ANQP value is fragmented and sent in a sequence of fragments each comprised in a IE with the same ID but with increasing fragment number. The last fragment of such sequence is marked as the last via End\_fragment bit.

The format of the ANQP\_List information element is presented in Figure 8-401

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Element ID | Length | ANQP Info ID | ANQP Fragment | ANQP Length | ANQPValue | … | ANQP Info ID |  ANQP Fragment | ANQP Length | ANQPValue |

Octets1 1 2 1 1 Variable 2 1 1 Variable

Figure 8-401, ANQP\_List IE Information Element

The Element ID has one octet length and specifies the corresponding value of the ANQP\_List information element specified in Table 8-54ai.

The Length field is one octet length specifies the length of ANQP\_List element in octets

The ANQP Info ID is two octet length and it specifies the Info ID from Table 8-184ai01 for the ANQP element

The ANQP\_Length is one octet length and specifies the length of ANQP Value fiels

The ANQP Fragment is one octet length and has the following format:

|  |  |
| --- | --- |
| End Fragment | Fragment Sequence Number |

 1 bit 7 bits

The End Fragment is one bit that indicates if it is the last fragment (if End Fragment =0) or another fragment follows in a subsequent IE (End Fragment =1).

The Fragment Sequence Number has 7 bit length and indicates the sequence number of the fragmented ANQP value field.

The Value field has a variable lengths and contains the value associated with the ANQP Info ID

An AP may add the most requested ANQP information elements in beacon, or FILS frame or Probe Response as a means of reducing the overhead related to the GAS requests and responses. A FILS STA will decode the ANQP information elements provided in Beacon or Probe Response and avoid duplication of GAS ANQP Request for those ANQP values.

**Motion-1:** To authorize the Editor to incorporate the text changes proposed in contribution 11-13-0265-00-00ai to the draft TGai Specification Document.

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

[Result of Motion]