IEEE P802.11
Wireless LANs

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| --- |
| Vendor Specific Request Element |
| Date: 2017-12-21 |
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Abstract

Draft text changes to incorporate a Vendor Specific Request Element in 802.11md are described here.

**9.3.3.11 Probe Request frame format**

*Instruct the Editor to add the following to Table 9-33:*

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| 20 | Vendor Specific Request | The Vendor Specific Request Element is optionally present. |

**9.4.2.1 General**

*Instruct the Editor to add the following to Table 9-77:*

|  |  |  |  |
| --- | --- | --- | --- |
| **Element** | **Element ID** | **Element ID Extension** | **Extensible** |
| Vendor Specific Request Element | 255 | TBD | Yes |

*Instruct the Editor to add the following text to 9.4.2:*

9.4.2.X Vendor Specific Request element(#5070)

This element is placed in a Probe Request frame or Information Request frame to request that the responding STA include the requested information in the Probe Response frame or Information Response frame, respectively. It is used to make one or more requests to the responding STA using Vendor Specific Organization Identifiers. The format of the element is as shown in Figure 9-YYY (Extended Request element).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Element ID | Length | Element ID Extension | Requested Element ID | Requested Vendor Specific Organization Identifiers  |
| Octets: | 1 | 1 | 1 | 1 | variable |

The Element ID, Length, and Element ID Extension fields are defined in 9.4.2.1 (General)..

The Requested Element ID is set to 221 (Vendor Specific as defined in 9.4.2.1). (#7117)The Requested Vendor Specific Organization Identifiers is a list of one or more Organization Identifier fields as described in 9.4.1.32.

See 11.1.4.3.5 (Contents of a probe response) for additional requirements.

**9.6.20.4 Information Request frame format**

*Instruct the Editor to add the following to Table 9-389:*

|  |  |
| --- | --- |
| **Order** | **Information** |
| 8 | Zero or more Vendor Specific Request elements |

*Instruct the Editor to add the following text to the end of 9.6.20.4:*

The Vendor Specific Request element is described in 9.4.2.X.

**11.1.4.3.8 Contents of a probe response**

*Instruct the Editor to modify the following text in the middle of 11.1.4.3.5:*

If there was a Request element, Extended Request element, or Vendor Specific Request element in the Probe Request frame, then:

* Each element that is listed by a non-FILS STA(11ai) in the Request element, Extended Request element(s), or Vendor Specific Request element and that is supported by the STA shall be included in the Probe Response frame. An element that is listed in a Request element, Extended Request element, or Vendor Specific Request element and that is not supported by the STA shall not be included. Each element requested by a FILS STA in a Request element shall be included in the Probe Response frame or a Beacon frame if the responding FILS STA supports that element(11ai).
* Elements that would not have been included otherwise shall be included after all of the elements that would have been included even in the absence of the Request element, Extended Request element, or Vendor Specific Request element.
* Elements that would have been included even in the absence of the Request element, Extended Request element or Vendor Specific Request element shall be included in their normal position (see Table 9-38 (Probe Response frame body)), and may be included again after all of the elements that would have been included even in the absence of the Request element.

NOTE—An element that would necessarily be included anyway is not expected to be requested.

* Elements after all of the elements that would have been included even in the absence of the Request element, Extended Request, or Vendor Specific Request element shall be included in the order that they appear in the (Extended) Request element(s) of the Probe Request frame.
* If dot11RadioMeasurementActivated is true and the RCPI element was requested, an RCPI element containing the RCPI of the Probe Request frame shall be included. If no measurement result is available, the RCPI value shall be set to indicate “Measurement not available” (see Table 9-169 (RCPI values)).
* If dot11RadioMeasurementActivated is true and the RSNI element was requested, an RSNI element containing the RSNI of the Probe Request frame shall be included. If no measurement result is available, the RSNI value shall be set to indicate that a measurement is not available. (see 9.4.2.41 (RSNI element)).
* If a Probe Request frame includes a Request element that the element ID of the Reduced Neighbor Report Request element, a Probe Response frame or a Beacon frame if transmitted may include the Reduced Neighbor Report element if the criteria as defined in Clause 11.1.4.3.4 (Criteria for sending a response(11ai)) are met for the included BSS. The reported BSSs may have different primary channels to the responding STA(11ai).

**11.30.1 Information Request and Response**

*Instruct the Editor to modify the following text in the middle of 11.30.1:*

(#5070)A STA processes a received Information Request frame as follows:

* Each element that is listed in a Request element, Extended Request element, or Vendor Specific Request element and that is supported by the STA shall be included in the Information Response frame. An element that is listed in a Request element, Extended Request element, or Vendor Specific Request element and that is not supported by the STA shall not be included.
* (#7595)If dot11RadioMeasurementActivated is true and the RCPI element was requested, an RCPI element containing the RCPI of the Probe Request frame shall be included. If no measurement result is available, the RCPI value shall be set to indicate “Measurement not available” (see Table 9-154 (RCPI values)).
* (#7595)If dot11RadioMeasurementActivated is true and the RSNI element was requested, an RSNI element containing the RSNI of the Probe Request frame shall be included. If no measurement result is available, the RSNI value shall be set to indicate that a measurement is not available (see 9.4.2.41 (RSNI element)).

**References:**