IEEE P802.11  
Wireless LANs

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| SB0 Comment Resolution on Active Scanning | | | | |
| Date: 2016-01-19 | | | | |
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Abstract

This submission proposes comment resolutions on Active Scanning.

* CIDs: 8128, 8463, and 8551 (3 CIDs)

Changes in the text refer to: Draft P802.11ah/D5.1 and Draft P802.11REVmc/D5.0

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 TGah Draft. This introduction is not part of the adopted material.

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

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

**CID 8128**

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| **CID** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Proposed**  **Resolution** |
| 8128 | 8.4.2.206 | 175 | 24 | These tables are unnecessarily bulky. | Change "Meaning" column to "Item requested" and "Definition" to "Reference".  Insert the type of item requested in the "Item requested" and a reference to the subclasue defining the item in the "Reference" column. Do the same with the remaining tables in this subclause. | Revised –  Agree with the commenter in principle.  TGah Editor to make changes shown in 131r0. |

**Proposed Remedy:**

***Instructions to TGah Editor: Modify the following sentence in Subclause 8.4.2.206 of D5.1 as follows:***

8.4.2.206 PV1 Probe Response Option element

….

Table 8-248t—Probe Response Option Bitmap subfield(#8103) 0 (Default Bitmap)

|  |  |  |  |
| --- | --- | --- | --- |
| Bit position | Subfield | Item Requested | Reference |
| 0 | |  | | --- | | Request Full SSID | | Full SSID element if the bit is set to 1, and Compressed SSID field if the bit is set to 0 | Clause 9.4.2.2 (SSID element) and Clause 8.8.5.3 (PV1 Probe Response frame format) |
| 1 | |  | | --- | | Request Next TBTT | | Next TBTT field | Clause 8.8.5.3 (PV1 Probe Response frame format) |
| 2 | |  | | --- | | Request Access Network Options | | Access Network Options field | Clause 9.4.2.92 (Interworking element) |
| 3 | Request S1G Beacon Compatibility | S1G Beacon Compatibility element | Clause 8.4.2.193 (S1G Beacon Compatibility element) |
| 4 | Request Supported Rates and BSS Membership Selectors | Supported Rates and BSS Membership Selectors element | Clause 9.4.2.3 (Supported Rates and BSS Membership Selectors elelement) |
| 5 | Request S1G Capability | S1G Capabilities element | Clause 8.4.2.197 (S1G Capabilities element) |
| 6 | Request S1G Operation | S1G Operation element | Clause 8.4.2.209 (S1G Operation element) |
| 7 | Request RSN | RSN element | Clause 9.4.2.25 (RSNE) |

Table 8-248u—Probe Response Option Bitmap subfield(#8103) 1

|  |  |  |  |
| --- | --- | --- | --- |
| Bit position | Subfield | Meaning | Definition |
| 0 | |  | | --- | | Request RPS | | RPS element | Clause 8.4.2.188 (RPS element) |
| 1 | |  | | --- | | Request Page Slice | | Page Slice element | Clause 8.4.2.189 (Page Slice element) |
| 2 | |  | | --- | | Request TSF Timer Accuracy | | TSF Timer Accuracy element | Clause 8.4.2.200 (TSF Timer Accuracy element) |
| 3 | Request S1G Relay Discovery | S1G Relay Discovery element | Clause 8.4.2.204 (S1G Relay Discovery element) |
| 4 | Request S1G Relay | S1G Relay element | Clause 8.4.2.201 (S1G Relay element) |
| 5 | Request S1G Sector Operation | S1G Sector Operation element | Clause 8.4.2.192 (S1G Sector Operation element) |
| 6 | Request Short Beacon Interval | Short Beacon Interval element | Clause 8.4.2.194 (Short Beacon Interval element) |
| 7 | Reserved |  |  |

Table 8-248v—Probe Response Option Bitmap subfield(#8103) 2

|  |  |  |  |
| --- | --- | --- | --- |
| Bit position | Subfield | Meaning | Definition |
| 0 | |  | | --- | | Request Country | | Country element | Clause 9.4.2.9 (Country element) |
| 1 | |  | | --- | | Request Power Constraint | | Power Constraint element | Clause 9.4.2.14 (Power Constraint element) |
| 2 | |  | | --- | | Request TPC Report | | TPC Report element | Clause 9.4.2.17 (TPC Report element) |
| 3 | Request Extended Supported Rates and BSS Membership Selectors | Extended Supported Rates and BSS Membership Selectors element | Clause 9.4.2.13 (Extended Supported Rates and BSS Membership Selectors element) |
| 4 | Request Extended Capabilities | Extended Capabilities element | Clause 9.4.2.27 (Extended Capabilities element) |
| 5 | Request BSS Load | BSS Load element | Clause 9.4.2.28 (BSS Load element) |
| 6 | Request EDCA Parameter Set | EDCA Parameter Set element | Clause 9.4.2.29 (EDCA Parameter Set element) |
| 7 | Request Supported Operating Classes | Supported Operating Classes element | Clause 9.4.2.54 (Supported Operating Classes element) |

Table 8-248w—Probe Response Option Bitmap subfield(#8103) 3

|  |  |  |  |
| --- | --- | --- | --- |
| Bit position | Subfield | Meaning | Definition |
| 0 | |  | | --- | | Request Measurement Pilot Transmission | | Measurement Pilot Transmission element | Clause 9.4.2.42 (Measurement Pilot Transmission element) |
| 1 | |  | | --- | | Request Multiple BSSID | | Multiple BSSID element | Clause 9.4.2.46 (Multiple BSSID element) |
| 2 | |  | | --- | | Request RM Enabled Capabilities | | RM Enabled Capabilities element | Clause 9.4.2.45 (RM Enabled Capabilities element) |
| 3 | Request AP Channel Report | AP Channel Report element | Clause 9.4.2.36 (AP Channel Report element) |
| 4 | Request BSS Average Access Delay | BSS Average Access Delay element | Clause 9.4.2.39 (BSS Average Access Delay element) |
| 5 | Request Antenna | Antenna element | Clause 9.4.2.40 (Antenna element) |
| 6 | Request BSS Available Admission Capability | BSS Available Admission Capacity element | Clause 9.4.2.43 (BSS Available Admission Capacity element) |
| 7 | Request BSS AC Access Delay | BSS AC Access Delay element | Clause 9.4.2.44 (BSS AC Access Delay element) |

Table 8-248x—Probe Response Option Bitmap subfield(#8103) 4

|  |  |  |  |
| --- | --- | --- | --- |
| Bit position | Subfield | Meaning | Definition |
| 0 | |  | | --- | | Request Mobility Domain | | Mobility Domain element | Clause 9.4.2.47 (Mobility Domain element) |
| 1 | |  | | --- | | Request QoS Traffic Capability | | QoS Traffic Capability element | Clause 9.4.2.78 (QoS Traffic Capability element) |
| 2 | |  | | --- | | Request Channel Usage | | Channel Usage element | Clause 9.4.2.86 (Channel Usage element) |
| 3 | Request Time Advertisement | Time Advertisement element | Clause 9.4.2.61 (Time Advertisement element) |
| 4 | Request Time Zone | Time Zone element | Clause 9.4.2.87 (Time Zone element) |
| 5 | Request IBSS Parameter Set | IBSS Parameter Set element | Clause 9.4.2.7 (IBSS Parameter Set element) |
| 6-7 | Reserved | Reserved |  |

Table 8-248y—Probe Response Option Bitmap subfield(#8103) 5

|  |  |  |  |
| --- | --- | --- | --- |
| Bit position | Subfield | Meaning | Definition |
| 0 | |  | | --- | | Request Interworking | | Interworking element | Clause 9.4.2.92 (Interworking element) |
| 1 | |  | | --- | | Request Advertisement Protocol | | Advertisement Protocol element | Clause 9.4.2.93 (Advertisement Protocol element) |
| 2 | |  | | --- | | Request Roaming Consortium | | Roaming Consortium element | Clause 9.4.2.96 (Roaming Consortium element) |
| 3 | Request Emergency Alert Identifier | Emergency Alert Identifier element | Clause 9.4.2.97 (Emergency Alert Identifier element) |
| 4 | Request QLoad Report | QLoad Report element | Clause 9.4.2.123 (QLoad Report element) |
| 5 | Request Multi-band | Multi-band element | Clause 9.4.2.138 (Multi-band element) |
| 6 | Request Multiple MAC Sublayers | Multiple MAC Sublayers element | Clause 9.4.2.153 (Multiple MAC Sublayers element) |
| 7 | Request Reduced Neighbor Report | Reduced Neighbor Report element | Clause 9.4.2.170 (Reduced Neighbor Report element) |

**CID 8128**

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| 8463 | 10.1.4..3.4b | 347 | 65 | The behavior of the active-scanning STA after receiving short Probe Response frame vs. Probe Response frame is mixed and as a result, the description for the procedure is very confusing. It should be clearly described. | Change "Otherwise, if it receives (Short) Probe Response frame, the STA may transmit a Probe Request frame/Association Request frame or listen to a full Beacon frame for obtaining the more information." into "Otherwise, if it receives a Short Probe Response frame, the STA may transmit a Probe Request frame/Association Request frame or listen to a full Beacon frame to obtain more information. If it receives Probe Response frame, the STA may transmit a Association Request frame." | Revised –  TGah Editor to make changes shown in 131r0. |

**Proposed Remedy:**

***Instructions to TGah Editor: Modify the following sentence in Subclause 10.1.4.3.4b of D5.1 as follows:***

10.1.4.3.4b NDP Probing

….

If PHY-CCA.indication (busy) primitive has not been detected before the ProbeTimer reaches MinChannelTime, then set NAV to 0 and scan the next channel. Otherwise, if it receives a PV1 Probe Response(#8047, Ed) frame, the STA may transmit an Association Request frame, or may transmit a Probe Request frame or listen to a full Beacon frame for obtaining the more information. If it receives a Probe Response frame, the STA may transmit an Association Reuqest frame.

**CID 8128**

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| **CID** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Proposed**  **Resolution** |
| 8551 | 8.4.2.206 | 174 | 25 | It should be made clear that STAs in this case should be APs since the text describes Short Probe Response returned by APs. | change "responding STAs" into "responding APs." | Rejected –  IBSS is not excluded in TGah. So, the responding STA may be an IBSS STA |