IEEE P802.11
Wireless LANs

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| --- |
| Directive measurement CID1951 |
| Date: 2018-06-04 |
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Abstract

CID 1951 is resolved by adding sector indication to the measurement request and response

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Page** | **Line** | **Clause** | **Duplicate of CID** | **Resn Status** | **Comment** | **Proposed Change** | **Resolution** |
| 1951 | 43.09 | 9 | 9.4.2.22.15 |  |  | The new defined Sub elements Measurement Configuration, Extended Measurement Configuration, Extended Measurement Report do not provide direction specific information that makes the measurements less relevant. | Add sector ID indication to the new subelements. Provide indication and reference of sector ID to Directional channel quality, Directional Measurement, Directional Statistics | **Revise**There is no need to provide sector ID indication to the Directional Channel Quality request and report. The sector ID is a priory known by the STAs involved in the measurement, see 11.30 Spatial sharing and interference mitigation for DMG STAs. The comment is relevant for Directional Measurement that provides per direction measurement of multiple directions. The Directional Measurement report does not indicate measurement of the sector used for communication with the requesting STA. Proposed solution provides indication of the measurement that belongs to the sector that is used for Rx from the requesting STA. |

**9.4.2.20.17 Directional Measurement request**

***Editor change on P965 (IEEE P802.11-REVmd/D1.0, February 2018)***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Operating class** | **Channel number** | **Measurement Start time** | **Measurement Duration per Direction** | **Measurement Method and Antenna Configuration** |
| **Octets** | **1** | **1** | **8** | **2** | **1** |

**Figure 9-209—Measurement Request field format for Directional Measurement request**

*Insert the following table after the last paragraph*

|  |  |  |  |
| --- | --- | --- | --- |
|  | B0 B2 | B3 B4 | B5 B7 |
|  | Measurement Method | Antenna Configuration  | Reserved |
|  Bits | 3 | 2 | 3 |

**Figure 9-209x— Measurement Method and Antenna Configuration subfields**

***Edtior change on P965L34***

The Measurement Method subfield indicates the method that is to be used by the Requested STA to carry out

this measurement request and report back in the measurement report. If this subfield is set to 0, it indicates

ANIPI. If this subfield is set to 1, it indicates RCPI. If the subfield is set to 2, it indicates Channel Load. Other

values are reserved.

***Edtior add at end of the sub clause***

The Antenna Configuration subfield indicates the configuration of the DMG antenna(s) used by the STA to carry out the measurement. If this subfield is set to 1, it indicates a quasi-omni antenna pattern. If this subfield is set to 2, it indicates directional antenna pattern. Other values are reserved.

**9.4.2.21.16 Directional Measurement report**

***Editor change on P1013 (IEEE P802.11-REVmd/D1.0, February 2018)***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Operating class** | **Channel number** | **Measurement Start time** | **Measurement Duration per Direction** | **Measurement Method and Antenna Configuration** | **Measurement Results** | **Optional Subelements**  |
| **Octets** | **1** | **1** | **8** | **2** | **1** | **Variable** | **Variable** |

**Figure 9-270—Measurement Report field format for Directional Measurement report**

|  |  |  |  |
| --- | --- | --- | --- |
|  | B0 B2 | B3 B4 | B5 B7 |
|  | Measurement Method | Antenna Configuration  | Reserved |
|  Bits | 3 | 2 | 3 |

**Figure 9-270x— Measurement Method and Antenna Configuration subfields**

***Edtior change on P1013L21***

The Measurement Method subfield indicates the method used by the STA to carry out the measurement request

and the format of values in the Measurement for Direction fields. If this subfield is set to 0, it indicates that the

values in the Measurement for Direction fields are expressed in ANIPI. If this subfield is set to 1, it indicates

that the values in the Measurement for Direction fields are expressed in RCPI. If this subfield is set to 2,

***Edtior add on P1013L31***

The Antenna Configuration subfield indicates the configuration of the DMG antenna(s) used by the STA to carry out the measurement. If this subfield is set to 1, it indicates a quasi-omni antenna pattern. If this subfield is set to 2, it indicates a directional antenna pattern. Other values are reserved.

***Edtior add on P1013L43***

If the Antenna Configuration subfield is equal to 2, the Measurement for Direction 1 subfield contains the measurement results corresponding to the direction the reporting STA uses to receive frames from the requesting STA

**References:**

1. IEEE P802.11-REVmd/D1.0, February 2018