IEEE P802.11
Wireless LANs

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| Coarse BSS Metric IE |
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|  |  |  |  |  |

Abstract

This submission provides normative text so that an AP advertises its operational status for STAs.

The amendment is based on Draft P802.11REVmb\_D9.1.

### 8.3.3 Management frames

### 8.3.3.2 Beacon frame format

*Instructions to Editor: Add new element to Table 8-19 as shown in change history.*

**Table 8-19 --- Beacon frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| XX | Coarse BSS Metric | The Coarse BSS Metric information element is present if dot11FILSActivated is true. |

### 8.3.3.10 Probe Response frame format

*Instructions to Editor: Add new element to Table 8-26 as shown in change history.*

**Table 8-26 --- Beacon frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| XX | Coarse BSS Metric | The Coarse BSS Metric information element is present if dot11FILSActivated is true. |

### 8.4.2 Information elements

### 8.4.2.1 General

*Instructions to Editor: Add new element to Table 8-53 as shown in change history.*

Table 8-53---Element Ids

|  |  |  |  |
| --- | --- | --- | --- |
| **Element** | **Element ID** | **Length of indicated element (in octets)** | **Extensible** |
| Coarse BSS Metric (see 8.4.2.XX (Coarse BSS Metricelement)) | XX | 3 |  |

### 8.4.2.XX Coarse BSS Metric element

*Instructions to Editor: Add this clause for explanations of new information element.*

The Coarse BSS Metric element indicates the coarse operational status of the AP in BSS. The non-AP STA refers to this element for determining if the AP is worthy to associate with. The format of the Coarse BSS Metric element is shown in Figure 8-XX.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Element ID | Length | Coarse BSS Metric |
| Octets: | 1 | 1 | 1 |

**Figure 8-XX Coarse BSS Metric element format**

The Length field shall be set to 1.

The format of Coarse BSS Metric field is shown in Figure 8-XX.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | B0 – B1 | B2- B3 | B4 – B5 | B6 – B7 |
|  | Coarse Station Capacity | WAN Link Speed | Coarse Channel Utilization | Reserved |
| Bits: | 2 | 2 | 2 | 2 |

**Figure 8-XX Coarse BSS Metric format**

The Coarse Station Capacity field indicates the remaining amount capacity of available STAs to be connected. The value can be four states in Table 8-XX.

(((temporary)))

|  |  |  |
| --- | --- | --- |
| **Value** | **Station Capacity** | **Notes** |
| 0x0 | 0 to 10 | Near to capacity limit |
| 0x1 | 11 to 50 | Congested |
| 0x2 | 51 to 100 | Many vacancies |
| 0x3 | Over 100 | Many vacancies |

**Table 8-XX Coarse Station Capacity field**

The WAN Link Speed field indicates the catalogue speed of WAN connection to the internet. It also indicates “Link down” when out of service. The value can be four states in Table 8-XX.

(((temporary)))

|  |  |
| --- | --- |
| **Value** | **WAN Link Speed** |
| 0x0 | Link down |
| 0x1 | Up to 10Mbps |
| 0x2 | Up to 100Mbps |
| 0x3 | Over 100Mbps |

**Table 8-XX WAN Link Speed field**

The Coarse Channel Utilization field indicates the percentage of air-time occupancy on the radio media which the AP sensed by physical or virtual carrier sense method. The value can be four states in Table 8-XX.

(((temporary)))

|  |  |
| --- | --- |
| **Value** | **Channel Utilization** |
| 0x0 | Not shown |
| 0x1 | 0 to 50% |
| 0x2 | 50 to 75% |
| 0x3 | Over 75% |

**Table 8-XX Coarse Channel Utilization field**

**References:**

doc.: IEEE 802.11-12/0011r0