IEEE P802.11
Wireless LANs

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| Fast link adaptation contradiction resolution |
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Abstract

There is a contradiction in subcaluse 9.38.3 (Fast link adaptation) between the definition of the normative behaviour and the relevant frame format. A solution to resolve the contradiction is proposed.

*Discussion: subclause 9.38.3 (Fast link adaptation) specifies that Link Measurement frames are conveyed inside Action No Ack frames; from the other side, the definition of the Link Measurement frames is limited to the Action subtype only. The same contradiction happens in 9.38.1 in realtion to aggregation of Link Measurement frames in a A-MPDU. Propose to allow the use of Action No Ack subtype frames to convey Link Measurement frames in a DMG BSS. The following recommendation is done with respect to [1].*

**8.6.7.4 Link Measurement Request frame format**

*Change the first paragraph as follows:*

The Link Measurement Request frame ~~uses the Action frame body format and~~ is transmitted by a STA to request another STA to respond with a Link Measurement Report frame to enable measurement of link path loss and estimation of link margin. In a non-DMG BSS, a Link Measurement Request frame is an Action frame and in a DMG BSS, a Link Measurement Request frame is an Action or an Action No Ack frame. The format of the Action field in the Link Measurement Request frame is shown in Figure 8-550 (Link Measurement Request frame Action field format).

**8.6.7.5 Link Measurement Report frame format**

*Change the firsr paragraph as follows:*

The Link Measurement Report frame ~~uses the Action frame body format and~~ is transmitted by a STA in response to a Link Measurement Request frame. In a non-DMG BSS, a Link Measurement Report frame is an Action frame and in a DMG BSS, a Link Measurement Report frame is an Action or an Action No Ack frame. The format of the Action field in the Link Measurement Report frame is shown in Figure 8-551 (Link Measurement Report frame Action field format).

**References:**

1. IEEE P802.11-REVmc/D1.5, June 2013