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Re:	802.16 Working Group Letter Ballot #26c	
Abstract	Updated resolution to comment 3104	
Purpose	To be discussed and adopted by 802.16 Rev2.	
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Clarifications related to triggers

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Introduction

The interpretation of the trigger mechanism is not clear and leads to different interpretations. In the proposed changes below, there are two alternative sets of remedies, Alternative A and Alternative B. Apply one of the alternatives.

Proposed remedies

[On page 200, replace the text in the Notes column for the Trigger Reference Indicator row in Table 145 by:]

Alternative A:

0: In addition to triggers defined by Neighbor BS Trigger TLVs, the MS shall apply the triggers for actions 0x1 and 0x2 defined the DCD message that do not have the same type, function and action as a trigger defined in a Neighbor BS Trigger TLV.

1: In addition to triggers defined by Neighbor BS Trigger TLVs, the MS shall apply the triggers for action of the preceding neighbor BS that do not have the same type, function and action as a trigger defined in a Neighbor BS Trigger TLV.

Alternative B:

In the presence of Neighbor BS Trigger TLVs, the complete set of triggers that the MS shall apply to this neighbor BS is specified by the Neighbor BS Trigger TLVs, and this bit may be ignored by the MS.

In the absence of Neighbor BS Trigger TLVs, this bit shall be interpreted as:

0: The MS shall apply the triggers for actions 0x1 and 0x2 defined the DCD message

1: The MS shall apply the same set of triggers as for the preceding neighbor BS

For the subsequent remedies Alternative A and Alternative B are identical.

[On page 439 lines 28-31, delete the following sentence, since it is not quite correct and is redundant given the definition of the action behavior (see p. 1184, Table 569):]

~~When the Trigger Action in the DCD message is encoded as 0x3, on trigger, MS starts neighbor BS scanning process by sending MOB_SCN-REQ or by initiating Autonomous neighbor cell scanning (see 8.4.13.1.3) or both.~~

[On page 439, lines 51-55, delete the following sentence:]

~~If the trigger type, trigger function and trigger action for a particular neighbor BS as defined in MOB_NBR-ADV are the same as the neighbor BS trigger type, trigger function and trigger action defined in the serving BS DCD, the trigger value and trigger averaging duration defined in the MOB_NBR-ADV shall take precedence.~~

[On page 1183, lines 41-44, Table 568, modify as follows:]

Trigger averaging duration is the time measured in number of frames over which the metric measurements are averaged. ~~When the mean value of the measurement meets the trigger condition, the MS reacts using the specified action.~~

[On page 1184, line 51, add the following sentences:]

If Trigger TLVs are included in the DCD message, the MS may ignore Trigger TLVs having a metric that the MS and BS have not agreed to support during SBC-REQ/RSP message exchange..

When the mean value of the MS's measurements over the averaging interval of a trigger defined by a Trigger TLV meets the trigger condition as specified by the type, function, and value of the trigger, the MS shall invoke the trigger's specified action. Whenever the trigger condition of a trigger is met, the MS shall invoke the action of the trigger. If more than one trigger conditions are met simultaneously the MS shall invoke the action of at least one of the triggers.

Triggers specified in this TLV may be overridden by triggers specified in the Neighbor BS Trigger TLV (see 6.3.2.3.42, Table 145)

The set of triggers defined by the Trigger TLVs in the DCD settings compound TLV for a given neighbor BS shall be identical to the complete set of triggers in the DCD message of that BS. When this TLV does not occur in the DCD settings compound TLV for a given neighbor BS, the set of Trigger TLVs in the neighbor BS's DCD message shall be identical to the set of Trigger TLVs in the current BS.

[On page 1313 lines 16-23, modify as follows:]

The Neighbor BS trigger is a compound TLV ~~value~~ that ~~indicates the~~ defines a trigger ~~being applied to this neighbor BS~~ (Table ~~568~~602). The resulting set of triggers that the MS shall apply to this neighbor BS is

specified in 6.3.2.3.42, Table 145. ~~The~~ Neighbor BS trigger TLVs set is are included in MOB_NBR-ADV message, only if ~~it~~ the resulting set of triggers is different from trigger set that is defined in the serving BS's DCD message or from the Neighbor BS trigger set for the preceding neighbor BS, whichever is referenced by the Trigger Reference Indicator in the PHY Profile ID.:-

[On page 1313, lines 39-43, modify as follows:]

Trigger averaging duration is the time measured in number of frames over which the metric measurements are averaged. ~~When the mean value of the measurement meets the trigger condition, the MS reacts using the specified action.~~

[On page 1314, line 38, add the following sentences:]

If Neighbor BS Trigger TLVs are included in the MOB_NBR-ADV message, the MS may ignore Neighbor BS Trigger TLVs having a metric that the MS and BS have not agreed to support during SBC-REQ/RSP message exchange.

When the mean value of the MS's measurements over the averaging interval of a trigger defined by a Neighbor BS Trigger TLV meets the trigger condition as specified by the type, function, and value of the trigger, the MS shall invoke the trigger's specified action. Whenever the trigger condition of a trigger is met, the MS shall invoke the action of the trigger. If more than one trigger conditions are met simultaneously the MS shall invoke the action of at least one of the triggers.