### IEEE P802.11Wireless LANs

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| Proposed Draft Specification for Multi-link Group Addressed Frame Reception |
| Date: 2021-02-16 |
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Abstract

We propose pdt for multi-link group addressed frame reception based on the following motion.

***The followings are supported in R1:***

* ***If a non-AP MLD intends to receive group addressed data frame, the non-AP MLD shall follow the baseline rules to receive the group address data frames on any one link that the non-AP MLD selects to receive group addressed data frames.***
* ***A group addressed data frame that is expected to be received by the non-AP MLD shall be scheduled for transmission in all the links setup with the non-AP MLD.***

***[Motion 144, #SP327, [35] and [255]]***

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Revision based on the comments from Edward.

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 TGbe 0.4 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe D0.4 Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

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

Discussion: The baseline rule of group addressed reception for a STA in PS mode receive both group addressed data frames and group addressed management frames. For MLD, there is no need for a different reception procedure based on additional indication on buffered group addressed management frame. The proposed text is written toward this direction to really follow baseline.

***11.2.3.7 Receive operation for STAs in PS mode***

*e) When dot11FMSActivated is false and ReceiveDTIMs is true, the STA shall wake up early enough
to be able to receive either every non-STBC DTIM or every STBC DTIM sent by the AP of the BSS.
……
A STA that stays awake to receive group addressed BUs shall elect to receive all group addressed
non-STBC transmissions or all group addressed STBC transmissions and remain awake until the
More Data subfield of the appropriate type (non-STBC or STBC) of group addressed BUs indicates
there are no further buffered group addressed BUs of that type, or until a TIM is received indicating
there are no more buffered group addressed BUs of that type,*

***TGbe editor: Modify 35.3.12 Multi-link group addressed frame delivery as follows: (Track change on)***

### 35.3.12 Multi-link group addressed frame delivery and reception

### 35.3.12.1 Beacon transmission

#### Editor’s Note: It is a placeholder subclause.

### 35.3.12.2 Group addressed management frame delivery

#### Editor’s Note: It is a placeholder subclause.

### 35.3.12.3 Group addressed data frame delivery

#### Editor’s Note: It is a placeholder subclause.

### 35.3.12.4 Group addressed frame reception

For each setup link between a non-AP MLD and an AP MLD, when ReceiveDTIMs is true for the corresponding non-AP STA affiliated with the non-AP MLD, the non-AP STA shall follow the rules defined in 11.2.3.7 (Receive operation for STAs in PS mode) to receive the group addressed BUs sent by the AP affiliated with the AP MLD on the corresponding link.

**Straw Poll: Do you support to incorporate the proposed draft text in 11-21-0257r1 to the TGbe Draft?**