IEEE P802.11
Wireless LANs

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| Proposed Updates for REVmc to 5.1.5 |
| Date: 2016-01-19 |
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Abstract

This document summarizes proposed changes to the text and figures in 5.1.5 that align the text and figures with the ARC SC’s views of how this section should be changed to increase the clarity of the section and align with ARC’s current understanding of how to describe 802.11 architecture. This document results from a Motion passed in the Tuesday 1/19/2016, PM1 session and summarizes the agreed changes approved by the Motion as described and discussed in 11-15/0454r8.

**Motion:**

Motion agreed in the ARC SC meeting during the Tuesday 19 January 2016, in the PM1 time slot:

Move to approve REVmc Figures 5-1, et al in 11-15/540r7 with editorial updates, as discussed in the ARC 1/19/ 2016 PM1 meeting, to be submitted to TGmc as 11-15/540r8.

Moved by: Michael Fisher

Seconded: David Hunter

Results: yes: 18 no: 0 abstain: 0

**Discussion:**

Document 11-15/540r8 has been posted to the server, it contains both the agreed changes and some notes on the discussions and alternate approaches. This document contains the changes provided in 11-15/540r8 without the supporting discussion and alternate approaches that are contained in the 11-15/540r8 with some additional editorial corrections.

**Proposed Changes**

Proposed changes: Replace Figure 5-1, with the following figure:



*Figure 540-1 – proposed update to Figure 5-1*

Proposed changes: Replace Figure 5-2, with the following figure:



*Figure 540-2 – proposed update to Figure 5-2*

Proposed changes: Change the text in 5.1.5.2 as shown, and Replace Figure 5-3, with the figure below:

**5.1.5.2 Non-AP STA role**

The MAC data plane architecture of a non-AP STA is completed by replacing the role-specific behavior block with that shown in Figure 5-3 (Role-specific behavior block for non-AP STA). The function of this block in a non-AP STA is to perform destination address filtering as described in 9.2.8 (MAC data service).

NOTE — In implementations, the DA address filtering function may be done “lower in the stack”. It is shown in the role-specific behavior block location for simplicity, and any implementation choice needs to provide equivalent behavior.



*Figure 540-3 – proposed update to Figure 5-3*

Proposed changes: Change the text in 5.1.5.3 as shown, and Replace Figure 5-4, with the figure below:

**5.1.5.3 AP role**

In an AP, the MAC data plane architecture includes distribution system access in its role-specific behavior block, as shown in Figure 5-4 (Role-specific behavior block for AP(#2434)).This block ~~performs destination address filtering as described in 9.2.8 (MAC data service), and~~ provides access to the DS for associated non-AP STAs as described in 4.5.2.1 (Distribution).

Note that this behavior block indicates that there is no access through the controlled port to or from the local upper-layers (the LLC sublayer) at an AP. Any such access is logically achieved in the architecture via transition of the DS and Portal to an integrated LAN. In actual implementations, this is likely optimized, and data frames appear to be delivered directly to one or more local LLC sublayer entities on the same physical device as the AP. Such optimization is effectively distributing the functions of the DS and Portal, and it is the responsibility of the implementation to ensure the logical behavior of these entities is maintained.



*Figure 540-4 – proposed update to Figure 5-4*

**5.1.5.4 Mesh STA role**

Proposed changes: Replace Figure 5-5, with the figure below:



*Figure 540-5 – proposed update to Figure 5-5*

**5.1.5.5 Mesh gate role**

Proposed changes: Replace Figure 5-6, with the figure below:



*Figure 540-6 – proposed update to Figure 5-6*