IEEE P802.11
Wireless LANs

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| Resolutions for some comments on 11mc/D5.0 |
| Date: 2016-02-23 |
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Abstract

This submission contains proposed resolutions to miscellaneous MAC Ad Hoc comments on REVmc D5.0 Sponsor Ballot.

References herein are to REVmc Draft 5.0.

R0 – initial version, with CIDs: 7131

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| 7131 | Stephens, Adrian | 3581.57 | N.2 | "A STA can also form an integral part of an AP". I thought an AP always contained a STA, otherwise we would have to change all statements of the form "A STA that receives an RTS shall sent a CTS" to say "An AP or STA that receives...". I'm sure we don't want to do that work. | Replace "ACM\_STA" by "AP" throughout Annex N, and delete the para at line 57. |

**Discussion:**

Yes, an AP always contains a STA. But, not all STAs are contained within an AP (there are other STAs, in clients, etc., of course). So, it seems correct to say that “A STA can also form an integral part of an AP”.

But, if this is too confusing, would it be better to say, “An AP is comprised of a STA and other functions outside the STA known as the DSAF”? If we do that, we’ll need to describe the DSAF here, which is probably a good idea, but is the start of the slippery slope toward the resolution to CID 7150 – to rewrite Annex N to align better with the latest normative text description of an AP. I suggest we defer going down to this slope, to handle it as part of CID 7150.

As for replacing “ACM\_STA” with “AP”, those are not the same thing. This is consistent with the normative description of an AP, as comprising a STA (the “ACM\_STA” in Annex N) and a DSAF. However, there are sentences/phrases in Annex N which confuse the idea that the AP contains an ACM\_STA, and those could be corrected/clarified:

At 3582.36:

Often the functions of an AP~~,~~ (which includes an ACM\_STA)~~,~~ a DS, and a portal, are combined into a single device, referred to in this annex as an *access unit* (AU).

At 3583.61:

The primary functions of the WLAN system, … are provided by the ~~ACM\_STA,~~ AP, and DS entities

The rest of the uses of ACM\_STA seem to be consistent with the current and normative structures/definitions.

**Proposed Resolution:**

REVISED.

Modify at 3582.36 as shown:

Often the functions of an AP~~,~~ (which includes an ACM\_STA)~~,~~ a DS, and a portal, are combined into a single device, referred to in this annex as an *access unit* (AU).

Modify at 3583.61 as shown:

The primary functions of the WLAN system, … are provided by the ~~ACM\_STA,~~ AP, and DS entities

No proposed resolution, yet:

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| **CID** | **Commenter** | **Page** | **Clause** | **Comment** | **Proposed Change** |
| 7826 | Hamilton, Mark | 653.35 | 9.3.5 | Figure 9-63 is missing some DSes | Insert a box labelled "DS" between the Gate and Portal, and another similar one between the Gate and AP. |
| 7817 | Hamilton, Mark | 133.54 | 5.1.5.1 | In Figure 5-1, put BA sscoreboarding between Address 1 address filtering and Duplicate Detection. | In Figure 5-1, add a block to the Receiving flow side for "Block Ack scoreboarding", between "Address 1 address filtering" and "Duplicate Detection". Use "(null)" for the transmitting flow side. Same thing in Figure 5-2. |
| 7808 | Hamilton, Mark | 96.01 | 4.4 | Review 4.4 through 4.9. How are these descriptions different/aligned with clauses 5, 6, 7 and 8? | Perform technical and editorial review and remove duplication and bring like concepts together. |
| 7146 | Stephens, Adrian | 134.10 | 5.1.5.1 | A role-specific behaviour is not shown for a DMG relay.If security on a DMG relay is established for each leg of the relay, then the data-flow must pass through the controlled port, and therefore be shown in the role-specific behaviour. | Determine whether to show a role-specific behaviour for a DMG relay, which would be similar to a mesh STA. |
| 7150 | Stephens, Adrian | 3581.01 | Annex N | Annex N contains terminology that is unique to itself, such as WLAN system and ACM\_STA. The understanding of what a DS is has developed and change in the ARC standing committee, resulting in changes to Clause 5. Annex N has been ignored. | Review Annex N and change terminology and architecture to conform to the normative portions of the draft. |