IEEE P802.11
Wireless LANs

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| Proposed Resolution for CID 101 CC35, Clause 11.2.1  |
| Date: 2021-11-12 |
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Abstract

This document provides a proposed comment resolution for CID 101 for CC35.

r1: As modified during the TGme teleconference on 2021-10-22, 2021-11-11, 2021-11-12.

The comments are available in: <https://mentor.ieee.org/802.11/dcn/21/11-21-0793-000m-revme-mac-comments.xls>.

Status: Highlighting in CID column indicates the status of the discussion on the CID:

Not Discussed (not highlighted)

Discussed additional discussion required (date of discussion(s) is(are) located below CID number)

Discussed / ready for SP (date of discussion(s) is(are) located below CID number)

SP run / ready for Motion (date of the SP is located below the date of discussion)

Motioned (date of Motion is located below the date of the SP)

Resolution Status: Highlighting in the Resolution column indicates:

Yellow highlighted text needs to be discussed

Red highlighted text has been discussed and additional discussion is required

**CIDs for Clause 11.2.1, Page 2148, lines 48:**

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| **CID** | **Comment** | **Proposed Change** | **Resolution** |
| 101 | The statement "A STA can be in one of two power states" really only applies to a STA that is using the power management mode and should say so. Also, the critical factor that impacts AP behavior is that there is a known awake/doze schedule that the AP and STA are aware of and the AP must buffer frames for the STA with an active PS mode according to the schedule and mode. The actual state of the STA is not a function of the agreed PS mode awake/doze schedule. | Replace "A STA can be in one of two power states:"With "A STA in power save (PS) mode is scheduled to be in one of two states:" | Revised:Replace "A STA can be in one of two power states:"With "A STA in power save (PS) mode can be in one of two power states:" |

*Note if this change is agreed, additional changes may need to be made throughout the power management clauses.*

Red lined text (based on REVme\_D0.3):

* Power management
* General

*Instructions to the Editor: The first paragraph in clause 11.2.3.2 Non-AP STA power management modes - is moved to the beginning of this clause (deleted from 11.2.3.2 and added here to 11.2.1), as shown.*

A non-AP STA can be in one of two power management modes:

* Active mode: The STA receives and transmits frames at any time if the STA is in awake state. A non-HE STA remains in the awake state. An HE STA remains in the awake state, unless the STA is unavailable. A STA that is unavailable is not capable of receiving PPDUs. A STA is permitted to be unavailable as described in 26.14.3 (Opportunistic power save), 26.14.1 (Intra-PPDU power save for non-AP HE STAs), and 26.8.4.4 (TWT Information frame exchange for flexible wake time).(11ax)
* Power save (PS) mode: The STA enters the awake state to receive or transmit frames. The STA remains in the doze state otherwise.

A STA in power save (PS) mode can be in one of two power states:

* Awake: STA is fully powered.
* Doze: STA is not able to transmit or receive and consumes very low power.

The manner in which a STA transitions between power states is determined by its power management mode and reflected in dot11PowerManagementMode.

The power management mode of a STA is selected by the PowerManagementMode parameter of the MLME-POWERMGT.request primitive or MLME-MESHPOWERMGT.request primitive. Once the STA updates its power management mode, the MLME shall issue an MLME-POWERMGT.confirm primitive or MLME-MESHPOWERMGT.confirm primitive respectively indicating the success of the operation.

* Non-AP STA power management modes

*Instructions to the Editor: The first paragraph in clause 11.2.3.2 Non-AP STA power management modes - is moved to the beginning of this clause (deleted from 11.2.3.2 and added here to 11.2.1), as shown.*

A non-AP STA shall be in active mode upon (re)association, except that if the (re)association is performed using the on-channel tunneling procedure defined in 11.31.5 (On-channel Tunneling (OCT) operation), then the non-AP STA shall be considered to be in power save mode and in doze state upon (re)association on the BSS identified by the BSSID, Band ID, and Channel Number fields contained in the Multi-band element transmitted in the On-channel Tunnel Request frame that carries the (Re)Association Request frame.

A STA that has transmitted a frame to an AP with which it is not associated and from which it expects a response shall remain in the awake state until such a response is received or until the procedure has timed out.

*Instructions to the Editor: The remaining text in 11.2.3.2 is unchanged.*

**References:**