IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Clarifications of PCP power management | | | | |
| Date: 2015-03-12 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Solomon Trainin | Intel |  |  | [solomon.trainin@intel.com](mailto:solomon.trainin@intel.com) |
| Carlos Cordeiro | Intel |  |  | [carlos.cordeiro@intel.com](mailto:carlos.cordeiro@intel.com) |
| Kirshenbaum, Erez | Qualcomm |  |  | [erezk@qti.qualcomm.com](mailto:erezk@qti.qualcomm.com) |
| Gal, Shahar | Qualcomm |  |  | [sgal@qti.qualcomm.com](mailto:sgal@qti.qualcomm.com) |
| Joe Andonieh | Peraso |  |  | [joe@perasotech.com](mailto:joe@perasotech.com) |
| Payam Torab Jahromi | Broadcom |  |  | [ptorab@broadcom.com](mailto:ptorab@broadcom.com) |

Abstract

Clarifications to resolve contradicitions found in realtion to power management of a PCP stations

*Discussion: There are several contradictions and lack of definition in sub clause 10.2.6 to be fixed in this proposal.*

8.4.2.130

*Discussion:*

*Existent definition of WSE for PCP makes the PPS mode non periodical with only Doze BI’s presented in PPS mode with no way to wake the PCP up in BI’s with CBAP only subfield set to 1 where ATI does not exist. Proposed changes unifies PPS mode and non-PCP STA PS mode, that Awake BI’s of BI’s with CBAP only subfield set to 1 contain AW.*

*Editor modify the text as follows:*

P1009L50

The DMG Wakeup Schedule element is used to communicate the wakeup schedule (WS) for transition to PS mode and in PS mode as well.

P1010L1

P1009L39

*Editor in Figure 8-510—DMG Wakeup Schedule element format modify:*

Number of Awake BIs

10.2.6.3 PCP Power management mode

*P1584L38*

*Editor modify as follows:*

To enter PPS mode, the PCP announces the start of the first PCP Awake BI of sleep cycle and the wakeup schedule through the DMG Wakeup Schedule element (8.4.2.130 (DMG Wakeup Schedule element)) and Awake Window element. The PCP includes those elements in DMG Beacons and may deliver the DMG WSE and AW in Announce frames.

P1584L42

*Editor modify as follows:*

The first PCP Awake BI of a sleep cycle starts at the instant specified by the value of the BI Start Time field of the announced DMG Wakeup Schedule element, and the number of successive PCP Awake BIs is specified by the Number of Awake BIs field of the DMG Wakeup Schedule element. In PPS mode, PCP transitions between Awake BI and Doze BI following the Wakeup Schedule element announced by the PCP.

P1584L53

*Editor modify as follows:*

In a PPS mode, the PCP should schedule an ATI if CBAP Only field is set to zero in the DMG Parameters field (8.4.1.46 (DMG Parameters field)).

P1584L60

*Editor in paragraph that starts at line 60 replace “Doze BI” by “PPS mode”*

**References:**

1. IEEE P802.11-REVmc/D4.0, January 2015