802.11ba Draft Specification

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| Spec text for WUR Duty Cycle Operation clarification |
| Date: 2018-09-08 |
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Abstract

This submission contains spec text to be incorporated in P802.11ba D1.0:

The content of this document is based on 11-18/1520r2 (WUR Duty Cycle Operation Clarifications):

Revision History:

* Rev 0: Initial version of the document

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

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

**Discussion:**

**Please refer to 11-18/1520r2 (WUR Duty Cycle Operation Clarifications) for related discussion.**

**Staw Poll: Do you agree to incorporate the proposed changes provided in document 11-18/1521r0 in the next draft of TGba?**

**Y/N/A**

**9.4.2.273 WUR Mode element**

***TGba Editor: Instruction: Modify Table 9-318c as follows (Track changes ON):***

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| * Subfields of WUR Parameters field from WUR AP
 |
| **Subfield** | **Definition** | **Encoding** |
| WUR ID | A WUR identifier that uniquely identifies the WUR STA within the BSS of the AP  | An WUR identifier provided by the AP. The size of the field is 12 bits. |
| WUR Channel Offset | Indicates the channel offset to be transmitted the WUR Wake-up frame relative to the WUR primary channel (see 31.9 (WUR FDMA operation)).  | The size of the field is 3 bits. The encoding is described in Table 9-318d (WUR Channel Offset subfield encoding). |
| Rserved | Reserved field | The size of the field is 1 bit. |
| Starting Time Of The WUR Duty Cycle | TSF time of the starting point of the WUR duty cycle | The size of the field is 8 octets in units of µs. |
| Group ID List | Indicates one or more group IDs assigned to the STA | The format is shown in Figure 9-751c (Group ID List subfield format). |

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***TGba Editor: Instruction: Modify Table 9-318e as follows (Track changes ON):***

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| * Subfields of the WUR Parameters field from WUR non-AP STA
 |
| **Subfield** | **Definition** | **Encoding** |
| On Duration | Indicates the preferred On Duration that the WURx of the WUR non-AP STA will be in WURx awake state for each the WUR duty cycle schedule (see 31.5 (WUR duty cycle operation)). | The size of the field is 4 bytes. The unit of the field is 256 µs.The size of the field is 4 octets. The unit of the field is 4 µs. |
| Duty Cycle Period | Indicates the preferred elapsed time between the start times of two successive WUR duty cycle schedules with units indicated by the Duty Cycle Period Units field in the most recently received WUR Operation element from the associated WUR AP (see 31.5 (WUR duty cycle operation)). | The size of the field is 2 bytes.The size of the field is 2 bytes.The size of the field is 2 octets. |

**31.9 WUR power management procedure**

WUR is a service that may be provided by a WUR AP to its associated WUR non-AP STAs.

* WUR Mode Setup

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***TGba Editor: Instruction: Add a Note after Table 31-1 as follows (Track changes ON):***

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| * WUR Mode setup frame exchange
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| **Request frame: Action Type field within a WUR Mode Setup frame transmitted from a WUR non-AP STA to a WUR AP STA** | **Response frame: Action Type field within a WUR Mode Setup frame transmitted from a WUR AP STA to a WUR non-AP STA** | **Response frame: WUR Mode Response Status field within a WUR Mode Setup frame transmitted from a WUR AP STA to a WUR non-AP STA** | **Status after the completion of the exchange** |
| Enter WUR Mode Request | Enter WUR Mode Response | Accept | The WUR non-AP STA enters WUR Mode. |
| Enter WUR Mode Suspend Request | Enter WUR Mode Suspend Response | Accept | The WUR non-AP STA enters WUR Mode Suspend. |
| Enter WUR Mode Request | Enter WUR Mode Response | Denied | WUR service is not provided by the WUR AP to the WUR non-AP STA at this time. |
| Enter WUR Mode Suspend Request | Enter WUR Mode Suspend Response | Denied | WUR service is not provided by the WUR AP to the WUR non-AP STA at this time. |

Note – The definition of WUR mode is described in 31.6.2 non-AP STA operation and 31.6.3 AP operation

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