IEEE P802.11
Wireless LANs

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| Comment resolutions for WUR channels  |
| Date: 2019-7-1 |
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Abstract

This submission proposes resolutions for multiple comments related to TGba D3.0 with the following CIDs (4 CIDs):

3071, 3072, 3311, 3358

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Resolution updated in CID 3311
* Rev 2: Explanation to the resolution for CID 3311 updated based on the discussion with the commenter

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGba Draft. This introduction is not part of the adopted material.

***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 existing 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.***

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| **CID** | **Commenter** | **Clause Number** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 3071 | Graham Smith | 29.2 | 105 | 38 | "WUR channel is a channel in which a WUR AP transmits..." Does not read right. Should be "A WUR channel is the channel in which a WUR AP transmits..." | Replace cited text with "A WUR channel is the channel in which a WUR AP transmits..." | Accepted. |
| 3072 | Graham Smith | 29.2 | 105 | 43 | "WUR primary channel is a channel in which a WUR AP transmits WUR Beacon frames.." Does not read right. Should be "The WUR primary channel is the channel in which a WUR AP transmits WUR Beacon frames..." | Replace cited text with "The WUR primary channel is the channel in which a WUR AP transmits WUR Beacon frames..." | Accepted. |
| 3311 | Tomoko Adachi | 29.2 |  |  | A WUR non-AP STA should include a band where the primary channel of a BSS is operating. A WUR AP should select the WUR channel for a WUR non-AP STA from the band where the primary channel of the BSS locates and which is indicated by the Supported Bands field by the non-AP STA.Re the scope of the PAR, the WUR needs to meet the same range requirement as the primary connectivity radio. The rejection reason for the previous comment (CID 2658) saying that "If a WUR AP wants to have same range between PCR and WUR, ..." is not valid, since it's allowing cases where PAR can't be satisfied. If the group wants to get rid of that condition, the PAR needs to be modified. | Add a sentence in 29.2 that a WUR non-AP STA should include a band where the primary channel of a BSS is operating when it transmits an Association Request or an Reassociation Request frame to an AP of the BSS. Add a sentence in 29.2 that a WUR non-AP STA should not include the WUR Capabilities element in an Association Request or an Reassociation Request frame sent to a DMG AP.Add a sentence in 29.2 that a WUR AP should select the WUR channel for a WUR non-AP STA from the band where the primary channel of the BSS locates and which is indicated by the Supported Bands field in the WUR Capabilities element sent by the WUR non-AP STA. | Revised.**1) Regarding the commenter’s first point that a WUR non-AP STA should include a band where the primary channel of a BSS is operating:** disagree with the suggested change since the supported band by a non-AP STA depends on the capability of the WUR non-AP STA and the WUR non-AP STA may not support the band where the primary channel of a BSS is operating. The Supported Band field when transmitted by a WUR non-AP STA should be used to indicate the capability of the WUR non-AP STA. Basically indicating whether the WUR non-AP STA is supporting 2.4GHz or 5GHz or both bands.**2) Regading the commenter’s second point that a WUR non-AP STA should not include the WUR Capabilities element in an Association Request or an Reassogiation Request frame sent to a DMG AP:** disagree with the suggested change since WUR AP and WUR non-AP are defined as non-HT, HT, VHT, or HE AP or non-AP STA and DMG is excluded from the definition, by definition, a WUR non-AP STA cannot associate to a DMG AP.**3) Regarding the point that a WUR AP should select the WUR channel for a WUR non-AP STA from the band where the primary channel of the BSS locates and which is indicated by the Supported Bands field in the WUR Capabilities element sent by the WUR non-AP STA:** Agree with the commenter that the WUR channel should be in the same band as the primary channel of the BSS where regular frame exchanges happen.TGba editor to make the changes shown in doc.: IEEE 802.11-19/1086r2 under all headings that include CID 3311. |
| 3358 | Xiaofei Wang | 9.4.2.294 | 59 | 29 | What is a "WUR Operating channel"? This is the only place in the spec that use this term and it is not defined | please define "WUR operating channel" or change it to "WUR channel" | Revised.Agree with the commenter. The proposed resolution is to replace “WUR operating channel” with “WUR operation” so that the field indicates the supported bands by the WUR non-AP STA for the WUR operation.TGba editor to make the changes shown in doc.: IEEE 802.11-19/1086r2 under all headings that include CID 3358. |

**TGba Editor: *Change the subclause below in TGba Draft 3.0 as follows (CID #3358)***

**9.4.2.296 WUR Capabilities element**

When the WUR Capabilities element is transmitted by a WUR non-AP STA, the Supported Bands field of the WUR capabilities element indicates the supported bands for the WUR operation (#3358). The format of the Supported Bands field is shown in Figure 9-776b (Supported Bands field format).

**TGba Editor: *Change the subclause below in TGba Draft 3.0 as follows (CID #3311)***

**29.2 WUR channel, WUR primary channel, and WUR discovery channel**

WUR channel is a channel in which a WUR AP transmits WUR Wake-up frames to an associated WUR non-AP STA.

WUR primary channel is a channel in which a WUR AP transmits WUR Beacon frames (see 29.6.2 (WUR Beacon generation)). The WUR primary channel is indicated in the WUR Operating Class and the WUR Channel subfields in the WUR Operation element contained in a Beacon, Association Response, Reassociation Response, or Probe Response frame transmitted by the WUR AP.

When the WUR FDMA Support subfield of the WUR Capabilities Information field of the WUR Capabilities element is set to 0, the WUR channel is equal to the WUR primary channel. Otherwise, the WUR channel may be different from the WUR primary channel (see 29.11 (WUR FDMA operation)).

A WUR channel and a WUR primary channel should be in the same band as the primary channel of the BSS. (#3311)

NOTE – Transmissions in a WUR channel and a WUR primary channel that are in the same band as the primary channel of the BSS provide similar range. (#3311)