### **IEEE P802.11Wireless LANs**

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| Comment Resolutions on Sync Field Comments |
| Date: 2019-04-17 |
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**Abstract**

The document provides comment resolutions for CID 2678, 2660.

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| **CID** | **Clause** | **Page/Line** | **Comment** | **Proposed Change** | **Resolution** |
| 2678 | 31.2.5.6 | 95.29 | Description of Off symbol for WUR-Sync field is missing. Add description for Off symbol, similar to the one in 31.2.5.7 | "Replace item c) in 31.2.5.6 with the following:"Waveform generation: Generate the MC-OOK waveform by using either On-WG or Off-WG according to the Sync-bit. The samples in Off-WG have zero energy. Sync-bit duration T\_Sync is 2 µs. Symbol randomization and per-transmit-chain CSD is applied within the waveform generation step." | **Accepted** |
| 2776 | 31.2.5.6 | 95.18 | Is the WUR-SYNC sequence generated according to the WUR\_DATARATE only? If it is, then there would be an issue for WUR-SYNC signal in the OBSS case: i.e. multiple BSS sending the same WUR-SYNC signal would cause the WUR receivers listen to the wrong WUR wake-up messages and reduce their battery life. |  | **Rejected**First, the comment is invalid as the commenter didn’t identify any change so that the specific wording of the changes that will satisfy the commenter can be determined by the CRC.Second, the CRC disagree with the commenter on the issue raised. The design is intended that the WUR-SYNC signal only carries the WUR data rate information, so as to simplify the WUR-SYNC detector and to strike a good balance between the detectability and false alarm on the WUR-SYNC detection. After a WUR receiver detects the WUR-SYNC field it will process the WUR frame, which would indicate whether the WUR frame is intended for that STA. Trying to reduce scanning power consumption by moving a BSS identifier information into the WUR-SYNC field, which the commenter seems to imply, would result in much higher miss detection rate and false alarm rate on the WUR-SYNC detection, and as a result, significantly comprise the overall performance. If extremely low scanning power consumption is desired, one can consider using the WUR duty-cycle operation with a low duty ratio.” |