IEEE P802.11
Wireless LANs

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| CC50: Comments resolution |
| Date: 2024-11-19 |
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Abstract

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This submission proposes resolution for CIDs received in CC50 (11bn D0.1).

1665

**Revisions:**

* Rev 0: Initial version of the document.

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 TGbe Draft. This introduction is not part of the adopted material.

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

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

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| **CID** | **Clause** | **Pg/Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 1665 | 37.1 | 236.48 | Many M/Os of features are missing |  | Revised. TGbn editor, please implement changes as shown in 11-25/1134r0 tagged as 1665 |

**37.1 Introduction**

The UHR STA MAC and MLME requirements are defined in Clause 37 (Ultra high reliability (UHR) MAC specification), with additional requirements defined in Clause 35 (Extremely high throughput (EHT) MAC specification), Clause 26 (High efficiency (HE) MAC specification) and Clause 10 (MAC sublayer functional description), the MLME requirements defined in Clause 11 (MLME), and the security functions defined in Clause 12 (Security). When requirements in other clauses overlap with those described in Clause 37 (Ultra high reliability (UHR) MAC specification), the requirements in Clause 37 (Ultra high reliability (UHR) MAC specification) supersede the requirements in Clause 10 (MAC sublayer functional description), Clause 11 (MLME), Clause 12 (Security), or Clause 26 (High efficiency (HE) MAC specification) or Clause 35 (Extremely high throughput (EHT) MAC specification).

(#1665) The UHR MAC supports Multi-AP coordination framework includes a set of schemes (Co-BF, Co-SR, Co-TDMA, and Co-RTWT) and procedures in which APs operating their BSSs on the same primary 20 MHz channel coordinate to reduce interference levels and to improve network performance such as medium utilization efficiency, communication reliability, and latency.

The UHR MAC supports SMD BSS transition which defines mechanism for a non-AP MLD to transition from its current AP MLD to a target AP MLD without requiring reassociation.

UHR MAC supports power management features such as (a) Dynamic power save (DPS) operation that allows dynamic transition between higher capability mode and a lower capability mode, and (b) Multi-Link power management signaling that enables non-AP STA affiliated with an MLPM non-AP MLD to indicate the power management mode of the other non-AP STA(s) affiliated with the same non-AP MLD and operating on an enabled link.

UHR MAC supports non-primary channel access (NPCA), that allows STA to switch from the BSS primary channel to the NPCA primary channel based on certain conditions defined in sub clause 37.10

UHR MAC supports unavailability reporting and parameter updates that defines mechanisms that allow a STA to inform a peer STA of its unavailability whether it is a one-time unavailability (Dynamic Unavailability Operation mode) or periodic unavailability (periodic unavailability operation)

UHR MAC supports Dynamic Subband Operation (DSO) enables a mechanism where a DSO non-AP STA that has an operating bandwidth narrower than the DSO AP can dynamically be allocated frequency resources outside of its current operating bandwidth within the DSO AP's BSS bandwidth, on a per-TXOP basis.

UHR MAC supports Dynamic bandwidth expansion (DBE), that allows a UHR AP to dynamically expanded bandwidth that is greater than the BSS bandwidth and up to the AP's maximum supported bandwidth

UHR MAC supports TXOP sharing for multiple P2P non-AP STAs that enable an AP to share a TXOP with multiple P2P non-AP STAs. Additionally, it also supports Coordinated channel recommendation (Co-CR) where multiple APs coordinate with each other to recommend same channel(s) for P2P operation.

NOTE—Mandatory or optional support for the main MAC and PHY features are described in 4.3.16b Ultra high reliability (UHR) STA.

**References:**

1. [11-24-0171r21](https://mentor.ieee.org/802.11/dcn/24/11-24-0171-21-00bn-tgbn-motions-list-part-1.pptx): 11-24-0171-21-00bn-tgbn-motions-list-part-1, Alfred Asterjadhi (Qualcomm Inc.)