IEEE P802.11
Wireless LANs

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| LB235 CR Coexistence Assurance |
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Abstract

This submission proposes resolutions of comments received from TGba LB235.

* CIDs: 3, 1254 (2 CIDs)

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.***

| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- |
| 3 |  |  | Missing separate Coexistence document for 2.4 GHz 4.9 GHz and 5 GHz spectrum |  | Rejected- Please find TGba coexistence assurance document from the following URL: <https://mentor.ieee.org/802.11/dcn/18/11-18-1069-01-00ba-coexistence-assurance.doc> |
| 1254 |  |  | There are many 802 wireless devices operating in the bands other than 802.11. Specifically a plethora of 802.15.4 PHYs can be operating in the 2.4 GHz band. To indicate consideration, at a minimum the 802 standards which operate in the subject bands should be identified, and indication that consideration has been completed, either by explicitly giving an analysis, or by (specific) references to other document is needed. As published the CAD gives no indication of which 802 wireless standards other than "legacy 802.11" have been considered in the analysis. The CAD vaguely indicates that coexistence with non-802.11 systems is the same as 802.11n. An explicit reference to the 802.11n coexistence analysis would be more clear. However, given the substantial number of new PHYs added to 802.15.4 since the 802.11n coexistence analysis was completed, it is highly likely that the assumptions and conditions used in the 802.11n CAD are not complete nor valid today. Fortunately there have been coexistence analysis performed and documented with amendments to 802.15.4 including some which example 802.11 and 802.15.4 coexistence in the common bands in great detail (examples below), which can be used by reference. | Recommended change: Include a section titled "coexistence with 802.15.4 systems"; study the various PHYs and corresponding CADs in 802.15.4 and any othr 802 wireless standard that uses the same bands; determine if additional analysis is required based on changes made by this amendment and/or amendments to 802.11 since the referenced CADs were completed and/or amendments to other standards since; include explicit references and/or additional analysis. | Revised- The 802.11ba system reuses 802.11n system’s CCA mechanism for the coexistence with non-802.11 systems.So, as long as 802.11n system assures the coexistence with non-802.11 system, TGba believes that 802.11ba system also keep the same level of the coexistence. But, as mentioned in the comment, referring the CADs that has been recently updated from 802.15 WG for showing a coexistence between 802.11n and other new 802.15.4 technologies may be helpful. TGba editor needs no update on the TGba draft. TGba approves the revised coexistene assurance document, [https://mentor.ieee.org/802.11/dcn/18/11-18-1069-01-00ba-coexistence-assurance.doc](https://mentor.ieee.org/802.11/dcn/18/11-18-1069-00-00ba-coexistence-assurance.doc) |