IEEE P802.11
Wireless LANs

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| TGah D1.0 LB200 Coexistence Assurance Document Comment Resolutions |
| Date: 2014-03-17 |
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Abstract: This document contains proposed resolutions for the following CIDs from LB200 of TGah D1.0:

* 2809
* 2810

##### Miscellaneous CIDs

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| **CID** | **Section** | **Page.****Line** | **Comment** | **Proposed Change** | **Resolution** |
| 2809 |  |  | Comment on behalf of Ben Rolfe: 802.11ah Coexistence document.  First comment is that there isn't much to comment on, it is about half a page of content.  802.11ah will use CSMA as defined in 802.11ac.  Good to know. | I was kind of looking for some analysis, something that shows the resulting impact, states something like "if there is an 802.15.4 compliant 902MHz device transmitting, the 802.11ah device will be blocked for the duration" or "the  802.11ah device will blast right through using superior coding and modulation schemes, annihilating all non-802.11 receivers in it's path" or, you known, something about coexistence. | Reject.Current 802.11ah Coex document describes CSMA procedure and in addition describes Energy Detect mechanism for coexistence with other non-802.11ah technologies. Document specifically lists Energy Detect thresholds to be used by 11ah devices, as a function of bandwidths. ED levels defined to match those used by other technologies’ (e.g. 15.4) ED levels.Coexistence analysis with specific other technologies is outside the scope of this document, and is not the purpose of this document. |
| 2810 |  |  | In the introduction, it refers to "IEEE 802.15.4 and IEEE 802.15.4g" which is not editorially correct as "IEEE 802.15.4" would, per IEEE-SA definition, mean the latest revision of 802.15.4 AND all approved amendments (which includes e,f,g,j and k last time I looked). | What 11ah probably mean is "including 802.15.4-2011 and 802.15.4g sub-GHz PHYs" or something like that.If 11ah does go ahead and do some coexistence analysis, they should include 15.4k which has some modes defined for 902MHz, as well as he MR-FSK PHY in 15.4g.  At this time there are quite a lot of devices deployed which are based on 802.15.4g so the coexistence analysis might actually be interesting. | Accept.Replace "IEEE 802.15.4 and IEEE 802.15.4g" with phrase "including 802.15.4-2011 and 802.15.4g sub-GHz PHYs" |
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*TGah Editor: Please make the following changes to the text of the Coexistence Assurance document, changes below highlighted in yellow.*

1. Introduction

This document addresses coexistence of IEEE 802.11ah per the PAR and 5C’s [2]. The relevent sections of each are outlined below:

* PAR scope:
	+ Provides mechanisms that enable coexistence with other systems in the bands including 802.15.4-2011 and 802.15.4g sub-GHz PHYs ~~IEEE 802.15.4 and IEEE P802.15.4g~~.
* 5C’s:
	+ Response to 17.5.4.1: “The working group will create a CA document and specifically reference 802.15.4-2011 and 802.15.4g sub-GHz PHYs ~~IEEE P802.15.4g~~ as part of the WG balloting process.”