IEEE P802.22  
Wireless RANs

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| Comment Resolutions for CID #83 | | | | |
| Date: 2014-07-10 | | | | |
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Abstract

This document provides revised texts to clarify the range of application of PHY mode 2. This corresponds to comment resolution for CID #83.

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**Summary**

CID #83 is summarized in the Table below.

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| CID | Comments | Suggested Remedy |
| #83 | My major disagreement with the draft as it stands is the fact that the 2k FFT has been reduced to a 1k FFT. This causes problems on both channel B operation and on filtering in compliance to the FCC spectrum mask. In order to convince me of the contrary, one would have to show me simultations of a 802.22b transmitter, operating within the spectral mask requirements set forth by the FCC, transmitting through channel B and properly recovering the transmitted data. This, in our opinion, will NOT work. | Accept in principle. Add a paragraph in the purpose of 802.22b to th e effect that "The standard has been deisgned to meet the needs required by channels A & C (check up please). In the rare cases where propagation conditions are as severe as those expressed by channels B and D, it may be required to revert to the base 802.22 2K modulation scheme. |

**Comment Resolution: Accepted**

Revised texts are provided in the following page. In order to clarify the range of application of PHY Mode2, one paragraph is inserted in subsection “1.2 Purpose”.

**1.2 Purpose**

The purpose of this amendment is to enhance the MAC and define an alternate PHY to accommodate broadband extensions and monitoring use cases for IEEE 802.22 devices operating is VHF/UHF TV broadcast bands between 54 MHz and 862 MHz.

Physical layer specifications in Section 9a (PHY (Mode 2)) whch is 1024-FFT based modulation schem, is designed to meet the needs required by channel models A and B in [1]. In the rare cases where propagation conditions are as severe as those expressed by channel models C and D in [1] , it may be required to revert to physical layer specifications in Section 9 (PHY (Mode 1)) which is 2048-FFT based modulation scheme.

[1] Eli Sofer and Gerald Chouinard, “WRAN Channel Modeling”, Doc.: IEEE802.22-05/0055r7, September 2005