**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **LB51 Radio Spec. Comment Res’s.** |
| Date Submitted | [22 June 2010] |
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| Re: |  |
| Abstract | Working doc of Radio Specification Comment Resolutions |
| Purpose | Comment Resolution |
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**Radio Spec. Group Comments**

**- Covered/Reviewed on 6/22/10 Call -**

**A resolution was accepted at Beijing mtg. for the following Radio Spec. comments (covered in 6/22/10 call)**

75 (AP) – Needs a specific resolution

A/I to editors: suggest removing the paragraph (not a radio spec comment)

1309, 1457, 1458, 1504, 1505, 1506, 1507, 1508, 1509, 1524

**LIFS/SIFS** **(covered in 6/22/10 call)**

673 – Ben to provide full explanation for Steve

675, 683, 825, 876, 877

Recc. to Accept in Principle – add minimum LIFS and SIFS for MR-OQPSK and OFDM PHY’s

A/I to Monique - Need definition on how to compute these and then apply that to all PHY’s

**PSDU Length (covered in 6/22/10 call)**

719, 720, 721, 722, 907, 908

Recc. to Accept in Principle – clarify

Thought is to keep packet length constant and vary sensitivity point (in dBm) as a function of data rate.

For instance -97dBm for 10kbps vs. -100dBm for 4.8kbps, while keeping packet length the same (250 kbps).

And should different packet lengths be considered for the lower data rates.

**Sensitivity (covered in 6/22/10 call)**

1321, 1322, 1323, 1324, 1325, 1369 (part 1)

Recc. to Accept in Principle – clarify

Add appropriate sensitivity #’s for all rate, can be done via equation.

Error rate for uncoded and coded for FSK.

Error rate for uncoded and coded for OQPSK.

Error rate for coded for OFDM.

**Radio Spec. Group Comments**

**- Not Yet Covered/Reviewed -
(recc. are currently only suggestions)**

**Turnaround Time**

1073, 1074, 1075, 1497, 1500, 1503

Recc. to Accept in Principle – use one term, define different values if necc., pick a roper time for all

**MR-FSK radio parameters Table 75e – specify for each band/mode**

1308, 1310, 1311

Recc. to Accept in Principle – expand table to cover all

**Modulation Index Tolerance**

1313, 1347, 1348, 1349, 1350

Recc. to Accept in Principle – expand table to cover all

**Tx Amp Fall/Rise Time**

1320, 1357, 1358, 1359, 1360

Recc. to Reject/Accept in Principle – std. should not define these type of implementation specifics, Turnaround time covers this

**Adj/Alt Ch Rej.**

1326, 1327

Since there are many other similar comments are under Modulation and since the resolution may be impacted by other Modulation comment resolutions I’m moving these 2 to Modulation.

Two different responses already being prepared for this topic – we will look at when we can start Modulation area next.

**Frequency/Symbol Tolerance**

1330, 1331, 1369 (part 2)

**MR-FSK Mod Signal Quality**

1510, 1513, 1515, 1517, 1519

Recc. to Accept in Principle – define quality metric (i.e. EVM or equivalent)

**Other Comments**

790 Data indication needs explaining or corrected.

Recc. to

823 Explain use of STF, LTF more clearly

Recc. to Accept in Principle (make wording more clear)

1424 A similar comment (#1458) was accepted in Beijing, this one should be as well.

Recc. to Accept

1522 Asking to repeat information in another section. This is bad (IEEE) style.

Recc. to Reject

1531 Remove Restriction of CCA Mode 4 (always report idle medium) to apply only to UWB PHY.

This works for low duty cycle systems.

Recc. to Accept in Principle - and consider adding informative text that the use of this for other PHY should be reserved for low duty cycle systems