Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)

Submission Title: [Proposed Resolutions to Remaining Comments in LB87]

Date Submitted: [March 2013]

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Re: [Proposed resolutions for LB87]

Abstract: [Comment resolutions for LB87]

Purpose: [This document identifies filter characteristics for improved performance in TG4m.]

CIDs 256, 361, 367, 369, 371, 407, 412, 413, 414, 415, 506, 508, 509, 510, 511

- CID 256: It is not clear which TVWS PHY will be used in which band. Please include text and/or table to clarify.

- Proposed resolution: Accept in Principle.

All bands relevant to all PHYs. Cross-reference to table of bands already included in the specification for each PHY under the respective "Operating frequency range" sub-clauses. Remove band 169 MHz from Table 4ic.

- Resolves also CIDs: 361, 367, 369, 371, 407, 412, 413, 414, 415, 506, 508, 509, 510, 511

CIDs 287, 294, 299, 305

- CID 287: General comment: There is no transmit spectral mask specification. There is no receiver interference rejection specification. There is no transmit power specification. Use 4g specifications for these items, to support smart utility network use cases.

- Proposed resolution: Reject.

This is largely a regulatory issue. Each band of operation is expected to have their own set of requirements specified outside this standard. This is consistent with specification of other PHYs in 802.15.4. For example, according to "18.2.4.2 Transmit power spectral density (PSD) mask: The MR-OFDM transmit PSD mask shall conform with local regulations.“

- Resolves also CIDs: 294, 299, 305

CID 325

- CID 325: Backwards compability, and robust co-existance with 802.15.4g legacy networks are critical to industry adoption for Smart Grid networks. the draft should in include the FSK, and OFDM Phy parameters to ensure backwards compatibily with legacy 802.15.4g networks and maintain conformance to the TVWS regulatory requirements

- Proposed resolution: Accept in Principle.

No PAR requirement for "full backwards compatibility with 4g". Specification built upon approved baseline proposals. Coexistence assurance document has been updated to include analysis of all applicable bands.

CID 330

- CID 330: TVWS-FSK PHY has several modes which can possibly use the same channel spacing. It is assumed that the used channel rater is chosen based on regional and TVWS spectrum availability. However, once a channel is chosen, will 15.4m devices need to support switching between multiple modes based on the link quality?

- Proposed resolution: Accept in Principle.

Resolved by CID 255