

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

Submission Title: CSK operating procedure for co-existence

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Abstract:

Purpose: to help complete some of the open items in the merged draft document

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Issue

Three types of PHY

- Type I : Low Rate (LR) PHY
- Type II : High Rate (HR) PHY
- Type III : CSK PHY

Section 5.5.1.4 (co-existence between PHY types)

Co-existence between Type I and II PHY defined in the draft

Missing information on CSK co-existence with PHY type I and II.

Requirements for CSK operation

Link establishment must be done via OOK since it is not known which devices in network support CSK

CSK receiver must be able to receive a regular LR or HR PHY transmission on any wavelength

The CSK transmitter and receiver should be matched for CSK operation so that two transmissions do not fall within one filter band of the receiver

All devices in network should support CSK for CSK operation.

CSK receiver should support LR and HR PHY detection (at start-up) to make sure there is no existing network before commencing CSK operation

CSK support information should be provided in the PHY capabilities and exchanged during link establishment and verified before commencing CSK operation

CSK operating procedure for co-existence

