

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

Submission Title: 802.15.4 2020 Cor1 Closing Report for May Meeting

Date Submitted: 19 May, 2021

Source: Kunal Shah Company – Itron Inc.

E-Mail: Kunal.Shah@itron.com

Re: 802.15.4 2020 Cor1 Closing Report for May Interim Meeting

Abstract: Closing Report for 802.15.4 2020 Cor1 meeting for May Interim Meeting.

Purpose: Provide information which kind of changes are needed to the standard.

Notice: This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.

Release: The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.15.

IEEE 802.15.4 2020 Cor1 Closing report

May 19, 2021

Kunal Shah (Itron)
IEEE 802.15.4 2020 Cor1 Chair

802.15.4 2020 Cor1 Scope

Project:

This corrigendum addresses significant errors found in IEEE Std 802.15.4-2020 and its amendments.

Achievements

- ✓ 3 sessions held during this Interim
- ✓ Modified PAR Developed and Reviewed
- ✓ Review technical proposals
- ✓ Heard 4 new proposals on errors found in IEEE 802.15.4
- ✓ Reviewed Preliminary draft
- ✓ Draft timeline discussed

Modified PAR

PAR

15-20-0270-04-Cor2-p802-15-4-2020-cor-1-par-
Update-detail

<https://mentor.ieee.org/802.15/dcn/21/15-21-0270-04-Cor2-tg4-2020-cor1-par-modification-draft.docx>

TG4 2020 Cor1 Motion

Request that the PAR contained in document [15-21-0270-04-Cor2], be approved for submission to the WG for its approval and that the EC be requested to forward the PAR to NesCom.

Moved by: Phil Beecher (Wi-Sun Alliance)

Seconded by: Don Sturek (Itron)

Approved by unanimous consent.

TG4 2020 Cor1 WG Motion

WG Motion: Request that the PAR contained in document [15-21-0270-04-Cor2], respectively, be approved by the IEEE 802.15 WG and that the EC be requested to forward the PAR to NesCom. The 802.15 working group chair and technical editor are authorized to make additional modifications to the PAR as needed to reflect EC discussion at its closing meeting.

Moved by: Kunal Shah (Itron)

Seconded by:

Vote:

List of Proposals

- SUN OFDM PHY PHR – doc#171rev0
- SUN-OFDM PHR MCS ambiguity problem and the resolution – Doc#305rev2
- 870 MHz Band Designator Issue – Doc# 330rev0
- Resolution to OFDM PHY PHR – Doc#386rev0
- Proposal for OFDM PHR Clarifications – Doc#393Rev0
- Proposal for SUN FSK/OFDM Channel Plan – Doc#397rev0
- Comparison of SUN OFDM PHR proposals– doc#29rev0
- Correction of Mode Switch PHR Parity Formula– Doc#9rev0
- Proposal for OFDM PHR Clarifications– Doc# 393rev0
- Proposal for SUN FSK/OFDM Channel Plan – Doc#397rev0
- Error in Clause 18.6 LRP UWB (Clint)
- Candidates for SUN-OFDM PHR of New Low Rates – Doc#37rev0
- Clarification in clause 7.4 IEs
- SUN OFDM PHR Consolidated proposal – Doc#158rev01
- Enhanced Ack Timing Issue – Doc#107rev01
- Padding issue in SUN-OFDM PHY – Doc#173rev0
- 802.15.4z - HRP UWB PHY - HPRF mode preamble sequence cross-correlation properties – Doc#152rev0
- Errors in SRM

Additional Proposals Heard

- SC-Maintenance doc#308rev0 – Phil Beecher (Wi-SUN Alliance)
- Doc#295rev01 -15.4y PICS (Tero Kivinen)
- Doc# 302rev00 - Convolutional Interleaver Definition (Joerg ROBERT (TU Ilmenau,Fraunhofer IIS))

Plan for July Interim

- Prepare and review draft based on all the proposals heard
- Hear additional proposals
- Initiate working group Letter Ballot

Timeline

- TG formation Sep 2020
- Call for Proposals Oct 2020
- Presentation of Proposals Nov 2020
- Hear additional proposals Jan 2021
- Consolidate proposals and develop draft Mar 2021
- Updated PAR and hear proposals May 2021
- Review draft and initiate LB July 2021
- LB comment resolution start recirculations Sep 2021
- Additional LB recirculation Nov 2021
- Start Standard Association ballot Jan 2022
- SA ballot comment resolution + 2 recirculations Mar 2022
- RevCom submission July 2022