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**P802.15.3**

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**Submitter Email:****Type of Project:** Revision to IEEE Standard 802.15.3-2016**Project Request Type:** Initiation / Revision**PAR Request Date:****PAR Approval Date:****PAR Expiration Date:****PAR Status:** Draft**Root Project:** 802.15.3-2016

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**1.1 Project Number:** P802.15.3**1.2 Type of Document:** Standard**1.3 Life Cycle:** Full Use

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**2.1 Project Title:** Standard for ~~High Data Rate~~ Wireless Multi-Media Networks**Change to Title:** ~~IEEE~~ Standard for High Data Rate Wireless Multi-Media Networks

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**3.1 Working Group:** Wireless Specialty Networks (WSN) Working Group(C/LM/802.15 WG)**3.1.1 Contact Information for Working Group Chair:****Name:** PATRICK KINNEY**Email Address:** pat.kinney@kinneyconsultingllc.com**3.1.2 Contact Information for Working Group Vice Chair:****Name:** Richard Alfvín**Email Address:** alfvín@ieee.org**3.2 Society and Committee:** IEEE Computer Society/LAN/MAN Standards Committee(C/LM)**3.2.1 Contact Information for Standards Committee Chair:****Name:** Paul Nikolich**Email Address:** p.nikolich@ieee.org**3.2.2 Contact Information for Standards Committee Vice Chair:****Name:** James Gilb**Email Address:** gilb@ieee.org**3.2.3 Contact Information for Standards Representative:****Name:** James Gilb**Email Address:** gilb@ieee.org

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**4.1 Type of Ballot:** Individual**4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot:**

Jan 2023

**4.3 Projected Completion Date for Submittal to RevCom:** Oct 2023

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 80**5.2 Scope of proposed standard:** This standard defines PHY and MAC specifications for high data rate wireless connectivity (typically over 200 Mbps) with fixed, portable, and moving devices. Data rates are high enough to satisfy a set of consumer multimedia industry needs, as well as to support emerging wireless switched point-to-point and high rate close proximity point-to-point applications.**5.3 Is the completion of this standard contingent upon the completion of another standard?** No**5.4 Purpose:** The purpose of this standard is to provide for low complexity, low cost, low power consumption, and high data rate wireless connectivity among devices that support a variety of applications such as a set of consumer multimedia industry needs, wireless switched point-to-point applications in data centers, wireless backhaul/fronthaul intra-device communications, and a wide variety of additional use cases such as rapid large multimedia data downloads and file exchanges between two devices in close proximity, including between mobile devices and stationary devices (kiosks, ticket gates, etc.), and/or wireless data storage devices.**5.5 Need for the Project:** It is a requirement of the Standards Association that the Sponsor shall initiate a revision of a standard whenever any of the material in the standard (including all amendments, corrigenda, etc.) becomes obsolete or incorrect, or if multiple amendments to a base standard exist three years after its approval or most recent reaffirmation. Since the last revision of the standard three amendments have been completed. These are **802.15.3d**, **802.15.3e** and **802.15.3f**. This revision is needed to roll up the three

completed amendments, to make various corrections and to add additional frequency bands in the frequency range 356 to 450 GHz. **IEEE Std. 802.15.3** includes a reference priority mapping using **IEEE Std. 802.1D-2004**, which is being withdrawn. The reference priority mapping will be replaced in order to use **IEEE Std. 802.1Q**.

**Change to Need for the Project:** It is a requirement of the Standards Association that the Sponsor shall initiate a revision of a standard whenever any of the material in the standard (including all amendments, corrigenda, etc.) becomes obsolete or incorrect, or if multiple amendments to a base standard exist three years after its approval or most recent reaffirmation. ~~This standard has been reaffirmed. Since but the has last never been revised since its completion in 2003. revision Since of that the time, standard two three amendments have been completed. and two more These are in process 802. Without a revision only one of 15.3d, the 802.15.3e two and in process amendments can be completed 802.15.3f. Further, This depending revision on is order needed of to completion roll of up the two three in process completed amendments, edits to the make title, various scope, corrections or purpose and of to the add base additional standard frequency contained bands in those the amendments frequency may get lost or reversed. This revision is range needed 356 to roll 450 up GHz. the IEEE two Std. completed 802.15.3 amendments, includes to a make various corrections, reference to priority clean mapping up using the IEEE title, Std. scope 802.1D-2004, and which purpose, is and being to withdrawn. establish The a reference stable priority base mapping for will the be two replaced in process order amendments. to It use is IEEE not Std. adding new functionality 802.1Q.~~

**5.6 Stakeholders for the Standard:** Chip vendors, chip makers, chip designers, technology suppliers, radio frequency (RF) equipment manufacturers, enterprise infrastructure providers, international wireless carriers/service providers, academic researchers, government research laboratories, communication equipment manufacturers, system integrators and consumers.

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## 6.1 Intellectual Property

**6.1.1 Is the Standards Committee aware of any copyright permissions needed for this project?**

No

**6.1.2 Is the Standards Committee aware of possible registration activity related to this project?**

No

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**7.1 Are there other standards or projects with a similar scope?** No

**7.2 Is it the intent to develop this document jointly with another organization?** No

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## 8.1 Additional Explanatory Notes:

The full name of all standards listed in 5.5 are as follows:

Sponsor Organization: IEEE 802

Standard Number: IEEE 802.15.3

Standard Date: 2016-05-16

Standard Title: Part 15.3: Wireless Medium Access Control (MAC) and Physical Layer (PHY)

Specifications for High Rate Wireless Personal Area Networks (WPANs)

Sponsor Organization: IEEE 802

Standard Number: IEEE 802.15.3d

Standard Date: 2017-10-18

Standard Title: Part 15.3: Wireless Medium Access Control (MAC) and Physical Layer (PHY)

Specifications for High Rate Wireless Personal Area Networks (WPANs): Amendment 2 for a 100Gbps wireless switched point-to-point physical layer

Sponsor Organization: IEEE 802

Standard Number: IEEE 802.15.3e

Standard Date: 2017-06-07

Standard Title: Part 15.3: Wireless Medium Access Control (MAC) and Physical Layer (PHY)

Specifications for High Rate Wireless Personal Area Networks (WPANs): Amendment 1: High-Rate Close Proximity Point-to-Point Communications

Sponsor Organization: IEEE 802

Standard Number: IEEE 802.15.3f

Standard Date: 2017-12-06

Standard Title: Part 15.3: Wireless Medium Access Control (MAC) and Physical Layer (PHY)

Specifications for High Rate Wireless Personal Area Networks (WPANs): Amendment 3: Extending the Physical Layer (PHY) Specification for Millimeter Wave to Operate from 57.0 GHz to 71 GHz

Sponsor Organization: IEEE 802

Standard Number: IEEE 802.1D

Standard Date: 2004-02-09