**P802.15.3d**

**Submitter Email:** bheile@ieee.org**Type of Project:** Amandmnet to IEEE-STadard 802.15.3 **PAR Request Date:** tbd **PAR Approval Date:PAR Expiration Date:Status:** Unapproved PAR, PAR for a New IEEE Standard

**1.1 Project Number:** P802.15.3d

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

**2.1 Title:** IEEE Standard for Local and Metropolitan Area Networks Part 15.3: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for High Rate Wireless Personal Area Networks (WPANs) Amendment: 100 Gbps Physical Layer

**3.1 Working Group:** Wireless Personal Area Network (WPAN) Working Group (C/LM/WG802.15)

**Contact Information for Working Group ChairName:** Robert Heile **Email Address:** bheile@ieee.org**Phone:** 781-929-4832

**Contact Information for Working Group Vice-ChairName:** Richard Alfvin **Email Address:** alfvin@ieee.org**Phone:** 585-781-0952

**3.2 Sponsoring Society and Committee:** IEEE Computer Society/LAN/MAN Standards Committee (C/LM)

**Contact Information for Sponsor ChairName:** Paul Nikolich **Email Address:** p.nikolich@ieee.org**Phone:** 857.205.0050

**Contact Information for Standards Representative Name:** ??? **Email Address:** ???? **Phone:** ?????

**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot:** tbd

**4.3 Projected Completion Date for Submittal to RevCom:** 05/2016

**5.1 Approximate number of people expected to be actively involved in the development of this project:** 30?

**5.2 Scope:** This amendment defines a wireless switched point-to-point physical layer for IEEE Std. 802.15.3 operating at data rates up to 100 Gbps in license-free bands from 60 GHz up to and including optical wireless at a range as short as a few centimeters. This amendment defines modifications to the Medium Access Control (MAC) layer needed to support this new physical layer.

**5.3 Is the completion of this standard dependent upon the completion of another standard:** No

**5.4 Purpose:** This amendment will specify a PHY layer and MAC changes to enable switched point-to-point applications at data rates up to 100 Gbps.

**5.5 Need for the Project:** There is a need for increased data rate in emerging wireless switched point-to-point applications in data centers, cellular wireless backhauling/fronthauling and intra-device communication.

**5.6 Stakeholders for the Standard:** Chip vendors, equipment manufacturers, enterprise infrastructure providers and wireless operators.

**Intellectual Property**

**6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?:** No

**6.1.b. Is the Sponsor aware of possible registration activity related to this project?:** No

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

**7.2 Joint Developments it the intent to develop this document jointly with another organization?:** No

**8.1 Additional Explanatory Notes (Item Number and Explanation):** tbd