

P802.15.3

Submitter Email: bheile@ieee.org

Type of Project: Revision to IEEE Standard 802.15.3-2003

PAR Request Date: 01-May-2015

PAR Approval Date:

PAR Expiration Date:

Status: Unapproved PAR, PAR for a Revision to an existing IEEE Standard

1.1 Project Number: P802.15.3

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for High Data Rate Wireless Networks

Changes in title: ~~IEEE Standard for Information technology—Local and metropolitan area networks—Specific requirements—Part 15.3: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for High Data Rate Wireless Personal Area Networks (WPAN)~~

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

Contact Information for Working Group Chair

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

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 04/2016

4.3 Projected Completion Date for Submittal to RevCom: 10/2016

5.1 Approximate number of people expected to be actively involved in the development of this project: 80

5.2 Scope: 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.

Changes in scope: This ~~project standard will~~ **defines** define the PHY and MAC specifications for high data rate wireless connectivity (typically over 200 Mbps) with fixed, portable and moving devices ~~within or entering a Personal Operating Space (POS). A Data goal rates of are the high WPAN HR enough (High Rate) Task Group will be to achieve~~ **satisfy a level set of interoperability consumer or multimedia coexistence industry with needs, other as 802.15 well Taskas Groups. It is also the intent of this project to work support toward emerging a level of coexistence with other wireless devices switched in point-to-point conjunction and with high Coexistence rate Task close Groups proximity such point as to 802.15.2 point applications.**

5.3 Is the completion of this standard dependent 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, high data rate wireless connectivity among devices supporting 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.

Changes in purpose: ~~The purpose of this standard is to provide for low complexity, low cost, low power consumption, (comparable to the goals of 802.15.1) and high data rate wireless connectivity among devices within supporting or a entering variety the of Personal applications Operating such Space as (POS). a The set data of rate consumer will multimedia be industry high enough needs, 20 wireless Mbps switched or point-to-point more applications in data centers, to wireless satisfy backhaul/fronthaul intra-device communications and a set wide variety of consumer additional use cases such as rapid large multimedia industry data needs downloads for and WPAN file communications. exchanges The between project two will devices also in address close the proximity, Quality including of between Service mobile capabilities devices required and to stationary support devices multimedia (kiosks, ticket gates, etc.), and/or wireless data types 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. This standard has been reaffirmed but has never been revised since its completion in 2003. Since that time, two amendments have been completed and two more are in process. Without a revision only one of the two in process amendments can be completed. Further, depending on order of completion of the two in process amendments, edits to the title, scope, or purpose of the base standard contained in those amendments may get lost or reversed. This revision is needed to roll up the two completed amendments, to make various corrections, to clean up the title, scope, and purpose, and to establish a stable base for the two in process amendments. It is not adding new functionality.

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.

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 Development

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

8.1 Additional Explanatory Notes (Item Number and Explanation): 5.2: In this context the term switching is used to describe the switching of the physical beams from one antenna to another antenna.

5.4: Fronthaul is the link between the PHY control unit of a base station and a remote radio unit.