IEEE P802.22
Wireless RANs

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| PAR for Broadband Service Extension Amendment |
| Date: 2011-08-12 |
| Author(s): |
| Name | Company | Address | Phone | email |
| M. Azizur Rahman | NICT | 3-4 Hikari no oka, Yokosuka, Kanagawa, Japan | +81-46-847-5060 | aziz.jp@ieee.org |

Abstract

This document presents the project authorization request (PAR) for Broadband Service Extension Amendment.

**PAR FORM- P802.22b, Amendment to IEEE Std. 802.22-2011**

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Submitter Email: aziz.jp@ieee.org

PAR Status: Unapproved PAR, PAR for an amendment to an existing IEEE Standard

Type of Project: Amendment to IEEE Standard 802.22-2011

PAR Request Date: Expected 2-Oct-2011

PAR Approval Date: Expected 06-Dec-2011

PAR Expiration Date: Expected 31-Dec-2015

1.1 Project Number: P802.22b

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Part 22: Cognitive Wireless RAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: Policies and procedures for operation in the TV Bands

 - Amendment: Broadband Service Extension

3.1 Working Group: Wireless Regional Area Networks (WRAN) Working Group (C/LM/WG802.22)

Contact Information for Working Group Chair

Name: Apurva N. Mody

Email Address: apurva.mody@ieee.org

 Phone: 404-819-0314

Contact Information for Working Group Vice-Chair
Name: Gerald Chouinard
Email Address: gerald.chouinard@crc.ca
Phone: 613-998-2500

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

Contact Information for Sponsor Chair

Name: Paul Nikolich

Email Address: p.nikolich@ieee.org

Phone: 857-205-0050

Contact Information for Standards Representative

None

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 11/2013

4.3 Projected Completion Date for Submittal to RevCom: 06/2014

5.1 Approximate number of people expected to be actively involved in the development of this project: 40

5.2 Scope:

This standard specifies alternate PHY and necessary MAC amendments to IEEE std. 802.22-2011 with the objective of broadband service extension to support data rates above 35 Mbps. This standard also enhances consumer premise equipments (CPEs) to better fit different applications and enables communications among CPEs.

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

5.4 Purpose:

This document will not have a purpose clause.

5.5 Need for the Project:

There are various broadband applications in the context of wireless regional area network where communications can be better served by CPEs with capabilities appropriate for different applications. In addition, extending regional area broadband services to various monitoring applications, emergency broadband services, remote medical services etc requires higher data rate. Communications among CPEs become vital for some of those applications.

5.6 Stakeholders for the Standard: The stakeholders include: Manufacturers and users of IEEE Std. 802.22-2011 devices.

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: No.

8.1 Additional Explanatory Notes: (note for 5.2 Scope)

This amendment supports mechanisms to enable coexistence with other 802 systems in the same band.