

P802.21.1

Submitter Email: sdas@appcomsci.com

Type of Project: New IEEE Standard

PAR Request Date: 15-Jul-2012

PAR Approval Date:

PAR Expiration Date:

Status: Unapproved PAR, PAR for a New IEEE Standard

1.1 Project Number: P802.21.1

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Local and metropolitan area networks

-- Part 21.1: Media Independent Services: Network Discovery for Handover Services

3.1 Working Group: Media Independent Handoff Working Group (C/LM/WG802.21)

Contact Information for Working Group Chair

Name: Subir Das

Email Address: sdas@appcomsci.com

Phone: 732 699 2483

Contact Information for Working Group Vice-Chair

None

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: 10/2014

5.1 Approximate number of people expected to be actively involved in the development of this project: 25

5.2 Scope: This standard defines extensible IEEE

802(R) media access independent network discovery mechanisms that enable the optimization of handover between heterogeneous

IEEE 802 networks and facilitates handover between IEEE 802 networks and cellular networks.

5.3 Is the completion of this standard dependent upon the completion of another standard: Yes

If yes please explain: Completion is co-contingent on the IEEE Std 802.21 revision project. In that project, the media independent media independent services will be split from IEEE Std 802.21 and moved to IEEE Std 802.21.1

5.4 Purpose: The purpose is to improve the user

experience of mobile devices by facilitating handover between IEEE 802 networks whether or not they are of different media types, including both wired and wireless, where network discovery for handover is

not otherwise defined; and to enable for mobile

devices to perform seamless handover where the network

environment supports it. These mechanisms are also usable

for handovers between IEEE 802 networks and non IEEE 802 networks.

5.5 Need for the Project: This project will extract the Media Independent Information Service specification from IEEE

Std 802.21 (following its introduction to the standard by the amendment 802.21m), moving it to the new

standalone standard IEEE Std 802.21.1. Such a split will result in more practical use of the Standard since not all use cases

require all media independent services. It will also ease the ongoing amendment activities and maintaining the

specification for future use cases. To assure that other media independent services

remains specified by an IEEE 802 standard, the revision and this new standard are co-contingent.

5.6 Stakeholders for the Standard: Network discovery is one of the most important first steps of handover and mobility in today's ubiquitous networking access. It has a pervasive set of stakeholders that includes Semiconductor manufacturers,

network equipment manufacturers, mobile and wireless device manufacturers and network 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 Development

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

8.1 Additional Explanatory Notes (Item Number and Explanation):