

P802.21b

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Type of Project: Amendment to IEEE Standard 802.21-2008

PAR Request Date: 18-Nov-2008

PAR Approval Date: 30-Jan-2009

PAR Expiration Date: 31-Dec-2013

Status: PAR for an Amendment to an existing IEEE Standard

Project Record: P802.21b

Root Project: 802.21-2008

1.1 Project Number: P802.21b

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Media Independent Handover Services - Amendment: Handovers with Downlink Only Technologies

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

Contact Information for Working Group Chair

Name: Subir Das

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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

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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: 11/2010

4.3 Projected Completion Date for Submittal to RevCom: 11/2011

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

5.2 Scope: This amendment defines mechanisms that enable the optimization of handovers between IEEE 802.21 supported technologies and downlink-only (DO) technologies

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 improve user experience by developing mechanisms that facilitate handovers between IEEE 802.21 supported technologies and DO technologies.

5.5 Need for the Project: Downlink-only technologies such as Digital Video Broadcasting (DVB), Terrestrial Digital Multimedia Broadcasting (T-DMB) and Media Forward Link Only (MediaFLOTM) are becoming more widespread in use. There is a need to support optimized handovers between these technologies and other technologies already supported by IEEE 802.21. Currently, there is no standard which specifies such handovers.

IEEE 802.21 defines mechanisms that enable handovers across various technologies such as IEEE 802 and 3GPP/3GPP2. These same mechanisms can be used for handovers with DO technologies. However, this requires enhancements to the IEEE 802.21 specification.

The enhancements may include:

*Extensions of IEEE 802.21 primitives and protocol to support handovers with DO technologies.

*Definition of Media dependent SAP(s) and corresponding mapping of MIH link layer primitives for DO technologies.

5.6 Stakeholders for the Standard: Semiconductor manufacturers, consumer electronic device manufacturers, operators and service

providers delivering entertainment content to mobile users.

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):