

P802.16.3

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Type of Project: New IEEE Standard

PAR Request Date: 20-Jul-2012

PAR Approval Date: 30-Aug-2012

PAR Expiration Date: 31-Dec-2016

Status: PAR for a New IEEE Standard

1.1 Project Number: P802.16.3

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Mobile Broadband Network Performance Measurements

3.1 Working Group: Broadband Wireless Access Working Group (C/LM/WG802.16)

Contact Information for Working Group Chair

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None

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: 07/2013

4.3 Projected Completion Date for Submittal to RevCom: 02/2014

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

5.2 Scope: This standard specifies procedures for characterizing the performance of deployed mobile broadband networks from a user perspective. It specifies metrics and test procedures as well as communication protocols and data formats allowing a network-based server to coordinate and manage test operation and data collection.

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

5.4 Purpose: By standardizing the metrics and methods, the standard provides a framework for characterizing and assessing the performance of various mobile broadband networks. By standardizing the protocols and data formats, it allows for a measurement server to collect information from a disparate set of devices on the network.

5.5 Need for the Project: Users of broadband mobile networks, including enterprises such as corporations and governments, lack reliable, comparable data on which to base their assessment of network performance. Such data can be valuable to determine overall network quality and to pinpoint specific weaknesses, including limitations in deployment. Improved knowledge of system performance will lead the market toward more effective networks and therefore encourage the redeployment of scarce spectrum using the most efficient technologies and implementations. Also, policy makers seeking information on performance of available networks will directly benefit by the opportunity to apply the standardized metrics and methods. Researchers will also gain by the ability to compare measured performance data to simulated results and thereby assess the theoretical models. One application of such information is the assessment of technology elements proposed during standards development.

5.6 Stakeholders for the Standard: Individual and enterprise users of mobile broadband networks; government policy agencies studying broadband deployments; companies and universities engaged in network performance assessment; operators of mobile broadband networks.

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): (7.1) Standardization activities relevant to this work, though not with a similar scope and primarily oriented to fixed networks, include:

*IETF (Internet Engineering Task Force) Working Group on IP Performance Metrics (ippm)

*IETF pre-standardization activity "Imap" on Large Scale Measurement of Access Network Performance

* ITU-T (International Telecommunication Union Standardization Sector) Study Group 12