|  |  |  |
| --- | --- | --- |
| Project | **IEEE 802.16 Broadband Wireless Access Working Group <**<http://ieee802.org/16>**>** | |
| Title | ***Report on FCC*** ***Program to Measure Mobile Broadband Service Performance*** | |
| Date Submitted | **2012-11-08** | |
| Source(s) | Roger B. Marks  Consensii LLC; Mobile Pulse, Inc.  4040 Montview Blvd  Denver, CO 80207 USA | Voice: +1 619 393 1913 E-mail: roger@consensii.com  \*<<http://standards.ieee.org/faqs/affiliationFAQ.html>> |
| Re: | IEEE 802.16-12-0624 (“IEEE 802.16 WG Statement to FCC regarding IEEE Project P802.16.3”) | |
| Abstract | This document reports on activities within the US FCC’s new program to measure mobile broadband service performance. It provides information relevant to IEEE 802.16-12-0624 (“IEEE 802.16 WG Statement to FCC regarding IEEE Project P802.16.3”) | |
| Purpose | As a reference for the further development of P802.16.3 and for the possible development of communications to the FCC. | |
| Notice | *This document does not represent the agreed views of the IEEE 802.16 Working Group or any of its subgroups*. It represents only the views of the participants listed in the “Source(s)” field above. It is offered as a basis for discussion. It is not binding on the contributor(s), who reserve(s) the right to add, amend or withdraw material contained herein. | |
| Copyright Policy | The contributor is familiar with the IEEE-SA Copyright Policy <http://standards.ieee.org/IPR/copyrightpolicy.html>. | |
| Patent Policy | The contributor is familiar with the IEEE-SA Patent Policy and Procedures:  <<http://standards.ieee.org/guides/bylaws/sect6-7.html#6>> and <<http://standards.ieee.org/guides/opman/sect6.html#6.3>>.  Further information is located at <<http://standards.ieee.org/board/pat/pat-material.html>> and <<http://standards.ieee.org/board/pat>>. | |

*Report on FCC Program to Measure*

*Mobile Broadband Service Performance*

Roger B. Marks

Consensii LLC; Mobile Pulse, Inc.

# Abstract

This document reports on activities within the US FCC’s new program to measure mobile broadband service performance. It provides information relevant to IEEE 802.16-12-0624 (“IEEE 802.16 WG Statement to FCC regarding IEEE Project P802.16.3”).

# Background and Prior Statement

On 20 September 2012, the IEEE 802.16 Working Group completed a statement to the US Federal Communications Commission (FCC) on “New IEEE Project P802.16.3 on Mobile Broadband Network Performance Measurements”([IEEE 802.16-12-0624](http://doc.wirelessman.org/16-12-0624)). The WG Chair [circulated the document](http://ieee802.org/secmail/msg15321.html) (which had also been approved by the IEEE 802.18 TAG) to the IEEE 802 EC, for the required five-day review.

The WG Chair [submitted the statement on behalf of the WG to the FCC](http://apps.fcc.gov/ecfs/comment_search/execute?proceeding=&applicant=802.16), which [posted it](http://apps.fcc.gov/ecfs/document/view?id=7022024463). No specific followup has been received by the WG or WG Chair.

For further background information, see contribution [IEEE 802.16-12-0575](http://doc.wirelessman.org/16-12-0575) (“Proposed IEEE 802.16 WG Statement to FCC regarding IEEE Project P802.16.3”), which stimulated IEEE 802.16-12-0624.

# Report on Meeting of 21 September at FCC

IEEE 802.16-12-0624 took note of the FCC’s “new program to measure mobile broadband service performance in the United States” and an [open meeting of 21 September 2012](http://www.fcc.gov/events/mobile-broadband-services-testing-and-measurement-program) to introduce the program. The speakers included the FCC’s Walter Johnston, James Miller, and Henning Schulzrinne. Roger Marks attended the meeting and asked a question about the role of standardization in the program, particularly regarding IEEE 802.16. Schulzrinne responded that “we’ve recently started to work with three standards organizations, including yours” as well as the Broadband Forum and IETF. He said “we certainly look forward to working with IEEE, with IETF, and with the Broadband Forum.”

# Report on FCC Followup Activities

The FCC’s new “Measuring Broadband America - Mobile” program (m-MBA) program held its first meeting on 10 October. The FCC subsequently filed a [report of the m-MBA Meeting of 10 Oct](http://apps.fcc.gov/ecfs/document/view?id=7022037320) and the [presentation slides](http://apps.fcc.gov/ecfs/document/view?id=7022037321).

The meeting report notes that “Mr. Johnston expressed the Commission’s appreciation that four national wireless carriers had agreed to support the program, but emphasized that the Commission was very interested in working with any other interested parties and encouraged representatives to contact the Commission to participate.” In particular, “staff emphasized that testing software was available for review by all under an Open Source license.” Marks followed up with staff regarding the recommended process. It is suggested that parties interested in the client software should contact [team@samknows.com](mailto:team@samknows.com), with a cc to James Miller [James.Miller@fcc.gov](mailto:James.Miller@fcc.gov).

The FCC maintains a mailing list for information on the m-MBA program. Those interested in subscribing should contact James Miller [James.Miller@fcc.gov](mailto:James.Miller@fcc.gov).

At the meeting of 10 October, a schedule of meetings was announced. However, the meeting of 31 October was cancelled due to weather. Other elements of the announced schedule are also being revised, but the details have not been announced.

# Interactions of FCC MBA Program with Standardization

As noted in ([IEEE 802.16-12-0575](http://doc.wirelessman.org/16-12-0575)), the FCC’s “Next-Generation Measurement Architecture Standardization and Outreach Group (NMASOG)” issued a statement to the Broadband Forum (21 August 2012) on “[Architecture Standards and Specifications](http://apps.fcc.gov/ecfs/document/view?id=7022008017).” The statement indicates that “a standards based approach is both technically feasible and can serve multiple interests.” It requests that the Broadband Forum (BBF) begin a work program on data collection infrastructure and in particular calls out the BBF’s Broadband Access Service Attributes and Performance Metrics (WT-304) project. It also indicates that it intends to ask the IETF to undertake work on “standardizing metrics used to characterize broadband performance.”

On 21 September, the FCC staff contributed a draft to the IETF’s LMAP (“Large Scale Measurement of Access network Performance”) mailing list, on the topic “[Large-Scale Measurement of Broadband Performance: Use Cases, Architecture and Protocol Requirements](http://tools.ietf.org/html/draft-schulzrinne-lmap-requirements-00).” The scope of the proposal is intended to address mobile devices. The LMAP activity is discussed in a separate report ([IEEE 802.16-12-0650](http://doc.wirelessman.org/16-12-0650)).