|  |  |
| --- | --- |
| Project | **IEEE 802.16 Broadband Wireless Access Working Group <**<http://ieee802.org/16>**>** |
| Title | ***Proposal for a Draft*** ***Architecture and Requirements Document for Mobile Broadband Network Performance Measurements*** |
| Date Submitted | **2012-11-07** |
| Source(s) | Roger B. MarksConsensii LLC; Mobile Pulse, Inc.4040 Montview BlvdDenver, CO 80207 USA | Voice: +1 619 393 1913E-mail: roger@consensii.com\*<<http://standards.ieee.org/faqs/affiliationFAQ.html>> |
| Re: | *Call for Contributions: IEEE Project P802.16.3 – Mobile Broadband Network Performance Measurements* (IEEE 802.16-12-0594-01) for IEEE 802.16’s Session #82 of 12-15 November 2012 |
| Abstract | This document provides the content supporting a proposal to develop a draft document on *Architecture and Requirements for Mobile Broadband Network Performance Measurements* to underlie the development of the P802.16.3 draft. The proposed draft would replace the current *[Draft] Applications and Requirements for Mobile Broadband Network Performance Measurements*. |
| Purpose | This contribution proposes that the content of IEEE 802.16-12-0648 be adopted as an initial architecture document to serve as the basis of the P802.16.3 draft, replacing working document IEEE 802.16-12-0483 *(“[Draft] Applications and Requirements for Mobile Broadband Network Performance Measurements*”) |
| 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>>. |

*Proposal for a Draft* *Architecture and Requirements Document for*

*Mobile Broadband Network Performance Measurements*

Roger B. Marks

Consensii LLC; Mobile Pulse, Inc.

# Abstract

This document proposes the development of a draft document on Architecture and Requirements for Mobile Broadband Network Performance Measurements to underlie the development of the P802.16.3 draft.

# Background

On 30 August 2012, the IEEE-SA Standards Board approved Project Authorization Request (PAR) [P802.16.3](http://doc.wirelessman.org/16-12-0489) for the development of a new standalone standard on Mobile Broadband Network Performance Measurements. The IEEE 802.16 Working Group is assigned to develop the standardization project. It issued a *Call for* *Contributions: IEEE Project P802.16.3: Mobile Broadband Network Performance Measurements* ([IEEE 802.16-12-0594](http://doc.wirelessman.org/16-12-0594)) for IEEE 802.16’s Session #82 of 12-15 November 2012.

The Call for Contributions requested comments regarding working document [IEEE 802.16-12-0483-01](http://doc.wirelessman.org/16-12-0483-01) (“[Draft] Applications and Requirements for Mobile Broadband Network Performance Measurements”).

# Comment

The [Draft] Applications and Requirements for Mobile Broadband Network Performance Measurements ([IEEE 802.16-12-0483-01](http://doc.wirelessman.org/16-12-0483-01)) refers to a number of network entities and functionalities, including measurement server, user devices, test operation, data collection, etc. However, it does not specify details about network entities or their role in a network architecture.

In order to progress the development of P802.16.3, documentation of the underlying architecture is required, along with an understanding of the messaging relayed among the functional entities.

In order to address these issues, contribution IEEE 802.16-12-0648 proposes a document to represent a baseline “Architecture and Requirements for Mobile Broadband Network Performance Measurements.” That contribution includes a draft specification of the architectural reference model, the functional entities in the architecture, the communication links among the functional entities, and the data elements and messaging to be exchanged on those communication links.

While contribution IEEE 802.16-12-0648 does not represent a complete baseline architecture, it provides a starting point that can be further developed in future Working Group activities.

IEEE 802.16-12-0648 is built upon IEEE 802.16-12-0483 (“[Draft] Applications and Requirements for Mobile Broadband Network Performance Measurements”) and incorporates, verbatim, the significant content of that document (clauses 1, 2, and 3). The scope of the new Architecture and Requirements document is broad enough to encompass the scope of the Applications and Requirements document. One the new, broader document is agreed, the Working Group will be able to advance the detailed requirements with reference to specific architecture and functional entities.

# Proposal

This contribution proposes that the content of IEEE 802.16-12-0648 be adopted as an initial Architecture and Requirements document, replacing IEEE 802.16-12-0483.