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| Project | **IEEE 802.16** **Broadband Wireless Access Working Group <**<http://ieee802.org/16>**>** | |
| Title | ***Proposed Statement to External Organizations on IEEE 802.16 Activity regarding Small Cell Backhaul*** | |
| Date Submitted | **2012-09-12** | |
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| Re: | HetNet Study Group’s *Call for Contributions: Small-Cell Backhaul (SCB) Enhancements to WirelessMAN-OFDMA* (IEEE 802.16-12-0509-02-Gdoc) for IEEE 802.16’s Session #81 of 17-20 September 2012 | |
| Abstract | This document proposes a statement to several external organizations providing notification of IEEE 802.16 Activity regarding Small Cell Backhaul. | |
| Purpose | This contribution requests that the HetNet Study Group review the attached proposal and, on that basis, prepare and forward a proposed statement to IEEE 802.16 Working Group for approval at the Session #81 Closing Plenary. | |
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*Proposed Statement to External Organizations on*

*IEEE 802.16 Activity regarding Small Cell Backhaul*

Roger B. Marks

Consensii LLC; Airspan Networks Inc.

# Abstract

This document proposes a statement to several external organizations providing notification of IEEE 802.16 Activity regarding Small Cell Backhaul.

# Background

At IEEE 802.16’s Session #80, the HetNet Study Group issued a *Call for Contributions: Small-Cell Backhaul (SCB) Enhancements to WirelessMAN-OFDMA* (IEEE 802.16-12-0509-02-Gdoc) toward Session #81 of 17-20 September 2012. The Call for Contributions solicited:

*input documentation to progress the development of a Project Authorization Request (PAR) and Five Criteria Statement on Small-Cell Backhaul (SCB) Enhancements to WirelessMAN-OFDMA… contributions will be addressed at Session #81, where the SG intends to develop the PAR and Five Criteria with the intent of presenting them for IEEE 802 approval in conjunction with Session #82.*

It also offered initial draft text for key elements of the PAR.

Contributions IEEE 802.16-12-0527 through IEEE 802.16-12-0530 have responded to the Call for Contributions, proposing a draft PAR and Five Criteria Statement and a further Call for Contributions.

If the IEEE 802.16 Working Group decides to proceed in this direction, it would be wise to notify external organizations that have a role to play in the related technology developments. Such organizations, particularly those specifically named in the proposed PAR, might appreciate notification of the intended activity. Also, they might be interested in contributing technical content to strengthen the draft PAR or support the future development of the project.

# Proposal

This contribution requests that the HetNet Study Group review the attached proposal and, on that basis, prepare and forward a proposed statement to IEEE 802.16 Working Group for approval at the Session #81 Closing Plenary.

PROPOSED DRAFT

**IEEE 802.16 Working Group on Broadband Wireless Access**

**http://WirelessMAN.org**

Roger B. Marks

Chair, IEEE 802.16 Working Group

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20 September 2012

To: Nan Chen, President, Metro Ethernet Forum

Peter Meissner, Operating Officer, NGMN Alliance

Gordon Mansfield, Chair, Small Cell Forum

Declan Byrne, Chair, WiMAX Forum

cc: Paul Nikolich, Chair, IEEE 802 Executive Committee

Subj: IEEE 802.16 Activity regarding Small Cell Backhaul

The IEEE 802.16 Working Group (WG) on Broadband Wireless Access would like to bring to your attention its intention to initiate a new standardization project to amend IEEE Std 802.16-2012 for enhancements to better address Small Cell Backhaul (SCB) Applications. The Working Group has forwarded a draft Project Authorization Request (PAR) (IEEE 802.16-12-0587) to the approving entities and hopes to have the project authorized in December 2012. We have referenced your organization’s documentation in our development of the proposal.

Note that the focus is to apply the IEEE 802.16 WirelessMAN-OFDMA air interface as an out-of-band non-line-of-sight backhaul solution for fixed or nomadic small cells that operate any sort of radio access network, such as IEEE 802.11, IEEE 802.16, or 3GPP. The solution would make use of IEEE 802.16’s native support for Ethernet transport. While we believe that the existing WirelessMAN-OFDMA air interface is suitable for the application, we believe that enhancements in certain areas will optimize it for the new small cell markets beginning to take shape.

The PAR is not final. A Call for Contributions (IEEE 802.16-12-0588) has been issued, including a request for comments on the draft. Your comments are welcome. We are particularly interested in your views on the technical requirements for Ethernet services support and for physical layer capabilities.

The Working Group would appreciate your inputs prior to the deadline of 7 November. Our next opportunity to respond to a formal communication will occur at [IEEE 802.16 Session #82](http://ieee802.org/16/meetings/mtg82) (12-15 Nov 2012 in San Antonio, TX, USA).

Sincerely,

Roger B. Marks

Chair, IEEE 802.16 Working Group on Broadband Wireless Access