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| Project | **IEEE 802.16** **Broadband Wireless Access Working Group <**<http://ieee802.org/16>**>** | |
| Title | ***Proposed Statement to External Organizations on*** ***HetNet Study Group Activity regarding Small Cell Backhaul*** | |
| Date Submitted | **2012-09-18** | |
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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 HetNet Study Group 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 statement to the external organizations. | |
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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 (WG) 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.

Contribution IEEE 802.16-12-0543 has proposed such a WG communication. However, that statement cannot be completed until the WG Closing Plenary on the evening of 20 September. Due to simultaneous meetings of external organizations during the week of IEEE 802.16 Session #81, this may be too late for a timely response.

# Proposal

This contribution requests that the HetNet Study Group review the attached proposal and, on that basis, prepare and forward a statement to the external organizations.

Note that it will be appropriate for the HetNet Study Group to proceed in parallel with addressing contribution IEEE 802.16-12-0543, because the external organizations may appreciate an update from the IEEE 802.16 WG once it has completed actions on HetNet Study Group requests at the WG Closing Plenary.

PROPOSED DRAFT

Harry Bims

Chair, IEEE 802.16 Working Group’s HetNet Study Group

18 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: Roger Marks, Chair, IEEE 802.16 Working Group

Paul Nikolich, Chair, IEEE 802 Executive Committee

Subj: IEEE 802.16 Activity regarding Small Cell Backhaul

The HetNet Study Group (with the IEEE 802.16 Working Group on Broadband Wireless Access) would like to bring to your attention its intention to initiate a new standardization project for enhancements to better address Small Cell Backhaul (SCB) applications and provide a cost-effective wireless backhaul solution.

The Study Group has agreed to forward a draft Project Authorization Request (PAR) to the appropriate approving entities and hopes to have the project authorized in December 2012. Once these approvals are granted, the standardization work will be authorized to proceed within the IEEE 802.16 Working Group. Please note that the Study Group is a temporary entity for the consideration of new work.

The draft PAR developed within the Study Group (IEEE 802.16-12-XXXX) references your organization’s documentation.

Note that the focus of the intended project is to apply the IEEE 802.16 WirelessMAN-OFDMA air interface (as specified in IEEE Std 802.16-2012 and incorporated in ITU’s IMT-2000) as an out-of-band non-line-of-sight backhaul solution for fixed 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-YYYY) has been drafted, including a request for comments on the draft PAR. 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 Study 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).

Please note that the Study Group’s recommendations are being forwarded to the IEEE 802.16 Working Group for consideration on 20 September 2012. Depending on the results of its deliberation, the IEEE 802.16 Working Group may provide a follow-up statement providing further information on the process and status.

Sincerely,

Harry Bims

Chair, IEEE 802.16 Working Group’s HetNet Study Group