# IEEE 802.16 Working Group on Broadband Wireless Access

## http://WirelessMAN.org

Dr. Roger B Marks
NIST
325 Broadway, MC 813.00
Boulder, CO 80305 USA
Tel: +1 303 497 3037
Fax: +1 303 497 7828
mailto:marks@nist.gov
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Dr.-Ing. Jamshid Khun-Jush
Chair, ETSI BRAN
mailto:Jamshid.Khun-Jush@eed.ericsson.se

Dear Jamshid:

Thank you for your letter (BRAN26d086 or IEEE 802.16l-01/24) that I received on 13 December. We remain pleased that the ETSI BRAN HIPERMAN project has taken the decision to make use of the MAC in IEEE Standard 802.16 as a normative reference in its DLC specification. This is a positive step for worldwide commonality. We are pleased to hear of your positive reactions to our 2-11 GHz P802.16a/D1 draft and of our plans for cooperation. We appreciate your suggestions on the editorial process and are willing to accept them providing the process does not become too unwieldy. Thank you also for providing the updated BRAN Terms of Reference as approved by the ETSI Board on 18 January 2002. I hope that this approval will set the stage for the completion of a BRAN/802.16 addendum to the ETSI/IEEE-SA agreement.

Regarding your reasonable request for copyright permission, I have requested that IEEE-SA staff draft a formal permission letter. I hope to have a positive response from them quite soon. At that time, I hope to also clarify the situation regarding the source files of the P802.16a draft.

At its Session #17 (21-25 January in Finland), the Working Group addressed 769 comments in the Working Group Letter Ballot regarding P802.16a/D1. Options were significantly reduced, and interoperable single-carrier, OFDM (256-point FFT), and OFDMA (2048-point FFT) alternatives emerged, with optional support for advanced antennas. The physical layer specifications for licensed and license-exempt operation were unified. The Working Group Letter Ballot of draft P802.16a/D1 has passed, pending additional rounds of comment recirculation that will begin as soon as Draft 2 is issued (by 8 February). The draft development schedule (IEEE 802.16ab-01/10) remains unchanged. Our HIPERMAN liaison official, Marianna Goldhammer, will provide you with the new draft. We welcome ballot comments from HIPERMAN or from any of your participating individuals.

Since our previous letter, the Working Group has completed a significant achievement with the approval of IEEE Standard 802.16 on 6 December. Publication is anticipated by mid-February.

At this time, we would like to inquire as to the status of the DLC in the ETSI BRAN HIPERACCESS project. At our joint meeting in January 2000, we tentatively agreed on a plan to reach a common DLC result with HIPERACCESS. Could you please update us on the status of this work? In particular, do you intend to harmonize the HIPERACCESS and HIPERMAN DLCs? Since this would also result in harmonization with 802.16's DLC/MAC in both the 2-11 and 10-66 GHz ranges, we see significant advantages.

We anticipate that HIPERACCESS may be concerned about support of its PHY specification by the IEEE 802.16/HIPERMAN DLC. Based on our understanding, we expect that this DLC/MAC would fully support the HA PHY. Should any support issues arise, we are open to developing an amendment to provide that support, or to specify a system profile that explicitly addresses the HA needs. By the same token, we are also open to the possibility of an amendment to

the IEEE 802.16 PHY to incorporate the HA PHY as an option. If you are interested in pursuing this issue, we would be happy to designate a representative to provide an overview of the 802.16 MAC and the technical issues of interfacing it with the HA PHY.

Please see our Session #17 Report for highlights of our actions this week.

Best regards,

Dr. Roger B. Marks
Chair, IEEE 802.16 Working Group on Broadband Wireless Access

cc:      Paul Nikolich, Chair, IEEE 802 LAN/MAN Standards Committee
         Jay Klein, IEEE 802.16 Liaison to ETSI BRAN
         Marianna Goldhammer, IEEE 802.16 Liaison to ETSI HIPERMAN
         Sue Vogel, Manager, Technical Committee Programs, IEEE Standards Activities