

Project	IEEE 802.16 Broadband Wireless Access Working Group	
Title	ETSI BRAN Liaison Letter on Plans regarding WirelessHUMAN™ Standard	
Date Submitted	2000-07-28	
Source	Roger B. Marks, Chair, IEEE 802.16 NIST 325 Broadway, MC 813.00 Boulder, CO 80303	Voice: 303-497-3037 Fax: 303-497-7828 E-mail: r.b.marks@ieee.org
Re:		
Abstract	This letter provides an update concerning the IEEE 802.16 Wireless High-Speed Unlicensed Metropolitan Area Networks Study Group	
Purpose	To update ETSI BRAN members on IEEE 802.16 plans.	
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IEEE 802.16 Working Group on Broadband Wireless Access

<http://wirelessman.org>

Dr. Roger B. Marks, Chair
325 Broadway, MC 813.00
Boulder, CO 80303 USA
Tel: +1 303 497 3037
Fax: +1 303 497 7828
<mailto:r.b.marks@ieee.org>

28 July 2000

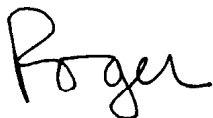
Dr.-Ing. Jamshid Khun-Jush, Chairman, ETSI BRAN
<mailto:Jamshid.Khun-Jush@eed.ericsson.se>

Dear Jamshid:

In the course of planning for a Project Authorization Request (PAR) proposing development of a [Wireless High-Speed Unlicensed Metropolitan Area Network \(WirelessHUMAN™\)](#) standard, we identified HIPERLAN/2 as a possible technology for evaluation. In addition, we envision the need to share the medium with other unlicensed devices, and in particular with HIPERLAN/2 devices, in the future. We believe there is a benefit in early collaboration in this area.

We would like to inform you of a Call for Contributions that we have issued on this matter. We invite any of your members to provide input to us.

Sincerely,



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

cc: Jim Carlo, Chair, IEEE 802 LAN/MAN Standards Committee

Attached: Call for Contributions

Call for Contributions to develop the Project Authorization Request for A WirelessHUMAN™ Standard

Deadline: September 1, 2000

The IEEE 802 LMSC has chartered the WirelessHUMAN™ (Wireless High-speed Unlicensed Metropolitan Area Networks) Study Group through 10 November 2000 to develop a proposed Project Authorization Request (PAR) for a standard for public MAN operation in the 5-6 GHz unlicensed bands, with primary focus on the 5.25-5.35 GHz and the 5.725-5.825 GHz UNII bands. In particular WirelessHUMAN™ aims to provide similar services as will be provided by IEEE 802.16.3 Systems but operating in the UNII bands. The Study Group is a unit of the IEEE 802.16 Working Group on Broadband Wireless Access but is coordinating with the IEEE 802.11 Working Group on Wireless LANs.

In conjunction with IEEE 802.16's Session #9 (September 11-15 in Denver, CO, USA), the Study Group will meet to write its proposed PAR and submit it to 802.16 for approval. The PAR will need to be submitted to the IEEE 802 Executive Committee by 6 October 2000.

During its initial phase (5 March through 14 July 2000), the Study Group has determined that the standard will draw from applicable or proposed standards.

The Study Group will decide at the upcoming meeting on the technical approach to the WirelessHUMAN™ Standard. To assist in the decision, the Study Group is calling for contributions to identify applicability & modifications of existing/proposed MAC/PHY standards for WirelessHUMAN™ systems. Contributors should consider adaptations of the following candidates:

1. IEEE 802.16.1 MAC (currently in Working Group Letter Ballot within 802.16)
2. IEEE 802.16.3 PHY and MAC (in development by 802.16.3 Task Group)
3. IEEE 802.11a PHY and IEEE 802.11 MAC with 802.11e extensions (currently in development)
4. HIPERLAN/2 PHY and MAC(www.etsi.org/bran)

The WirelessHUMAN™ Study Group has identified the following issues as potential modifications to the above standards as listed in [URL]. Contributors are encouraged to address the following factors in light of suitability for unlicensed operation in MAN environments:

- Operation in presence of interference
- Cellular deployment with sectorization and frequency reuse
- Accommodation of propagation delay and multipath
- Error Control
- Providing QoS capabilities
- Operations and maintenance support
- Public network grade availability
- Dynamic Frequency Selection
- Adaptive Power Control
- Multiple simultaneous sessions to a single terminal/user

Contributions should be submitted using Revision 8 of the 802.16 Document Submission Template <http://ieee802.org/16/docs/802_16_template.doc>. Contributions will be considered non-proprietary and

will be posted as soon as possible after receipt for public access on the 802.16 web site. Contributions submitted by the deadline will be addressed at the meeting.

Email your contribution to each of the following:

- Study Group Chair Durga P. Satapathy durga.satapathy@mail.sprint.com
- Study Group Secretary Sanjay Moghe smoghe@rf-solutions.com
- IEEE 802.16 Chair Roger Marks marks@nist.gov