INTERNATIONAL TELECOMMUNICATION UNION

Radiocommunication Bureau

28 November 2003

Contact: F. Leite
Tel: +41 22 730 5940
Fax: +41 22 730 5806
E-Mail: fabio.leite@itu.int

Dr. Roger B Marks
NIST
325 Broadway, MC 813.00
Boulder, CO 80305 USA

Subject: **Collaboration ITU-R / IEEE 802.16 on broadband wireless access**

Dear Dr. Marks,

I am attaching a letter prepared by the ITU-R Joint Rapporteur Group 8A-9B on wireless access in response to your letter on Broadband Wireless Access of 17 November 2003.

Please note that it has been proposed that JRG 8A-9B be disbanded and its future activities carried out by the parent Working Parties 8A (mobile) and 9B (fixed).

We look forward to strengthening the collaboration with IEEE 802.16 Project.

I stay at your disposal for any information or clarification you may need on this subject.

Yours sincerely,

Yours sincerely,

Fabio S. Leite
Counsellor,
Fixed Wireless Systems

Attachment: 1`

Attachment
(Source: Doc. 8A-9B/TEMP/4(Rev.1))

Letter to IEEE (attention IEEE 802.16 Working Group)

The ITU-R Joint Rapporteurs Group 8A-9B (JRG 8A-9B) on wireless access met on 24-28 November 2003 and discussed the letter from the Chairman, IEEE 802.16 Working Group on Broadband Wireless Access contained in Attachment 1 to Document 8A-9B/13.

JRG 8A-9B agrees that the establishment of an ITU-R Recommendation on broadband wireless access containing a reference to the IEEE Standard 802.16 might be adequate and timely.

JRG 8A-9B notes that there are other organizations developing similar standards, for example ETSI HiperMAN, which might also be included in ITU-R Recommendations. JRG 8A-9B discussed the advantages and disadvantages of referencing each standard in a separate Recommendation or referencing them all in the same Recommendation. Our current view is that they should all be put in one Recommendation.

The meeting discussed in which ITU-R series this draft Recommendation should be developed. The ITU-R view is that the initial preparation should be based on a F-series Recommendation (Fixed service) taking into account that the material derived from the IEEE Standard 802.16 would focus on fixed aspects of the standard. Subsequently, the inclusion of the mobility capabilities would be the aim of a M-series Recommendation (Mobile service).

JRG 8A-9B prepared a draft outline of the Working Document towards a preliminary draft new Recommendation (see Annex) as a guidance for further work. IEEE (Working Group 802.16) is invited to contribute with comments and material in order to progress this Working Document, in particular on Section(s) 5.x, which will contain the overview of the radio interface and possible reference to the standard. You will note that the outline encompass characteristics of more than one radio interface. Although JRG 8A-9B understands that it is too premature to anticipate the final format of the draft Recommendation, this approach is used to provide placeholders for referencing different air interfaces of the IEEE Standard 802.16, ETSI HiperMAN and others if available. Note that ITU-R is also establishing communication with ETSI (Project BRAN) on this matter.

We wish to point out that in ITU-R when Recommendations provide information on various systems relating to one particular radio application, they should be based on criteria relevant to the application, and should include, where possible, an evaluation of the recommended systems, using those criteria. In such cases, the relevant criteria and other pertinent information are to be determined, as appropriate, within the ITU-R Study Group. (Ref.: Section 6.1.2 of Resolution ITU-R 1-4 on Working Methods).

ITU-R already has experience in establishing evaluation criteria, such as those contained in Recommendation ITU-R M.1225 for IMT-2000 radio interfaces. It is envisaged that for BWA radio interface evaluation similar criteria may be defined but limited to a condensed set, focussed on key performance parameters specific to the application.

Implementation profiles and conformance testing could also be included in the same Recommendation or related Recommendations.

On behalf of ITU-R, we thank IEEE (802.16 Working Group) for this liaison and look forward to our close cooperation in the development of the relevant Recommendations.

Contact: Jose M. Costa   Tel: +1 613 763 7574
                                                      E-mail:costa@nortelnetworks.com

Annex: 1

Annex

OUTLINE OF THE WORKING DOCUMENT TOWARDS A PRELIMINARY
DRAFT NEW RECOMMENDATION

**Detailed specifications of the radio interfaces for
fixed broadband wireless access (BWA) systems**

1   Introduction
…

2   Scope
This Recommendation identifies the radio interface specifications for fixed BWA systems
based on the characteristics …

3   Related ITU Recommendations
The existing Recommendations that are considered to be of importance in the development of
this particular Recommendation are as follows:
<list of relevant ITU-R and ITU-T Recommendations, such as Recommendations ITU-R
F.1399, F.1400, F.1401 and M.1651>

4   Considerations
…

5   Recommendations
The Radiocommunication Assembly recommends that the radio interfaces given below should
be those of the fixed BWA systems.

5.1   Radio Interface 1

5.1.1   Overview of the radio interface
…

5.1.2   Detailed specification of the radio interface
The specifications contained in this section are derived from the standards for fixed BWA
contained at http://<TBD>.
…

5.n   Radio Interface n

5.n.1   Overview of the radio interface
…

5.n.2   Detailed specification of the radio interface
The specifications contained in this section are derived from the standards for fixed BWA
contained at http://<TBD>.

————————————