

2005-11-09

IEEE L802.16-05/055

From: Langtry, Colin  
Sent: 02 November 2005 17:21  
Subject: Request for input on broadband wireless access standards in the mobile service

Please find attached an invitation to provide comment on texts regarding broadband wireless access which are being developed within Working Party 8A of the International Telecommunication Union. I would appreciate it if you could forward this to any interested groups within your organization.

Yours sincerely,

Colin Langtry  
Counsellor, Study Group 8  
Radiocommunication Bureau

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Sent to:

ACIF, ARIB, ATIS, CCSA, ETSI, IEEE, IETF, ISACC, TIA, TTA, TTC

NOTE: DOC version of attached document, including attachments, is available at:  
<http://ieee802.org/secmail/msg07442.html>



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## **Working Party 8A**

LIAISON STATEMENT TO  
ACIF, ARIB, ATIS, CCSA, ETSI, IEEE, IETF, ISACC, TIA, TTA, TTC

(INFORMATION TO WP 8F, WP 9B & WP 9D)

REQUEST FOR INPUT ON BROADBAND WIRELESS ACCESS  
STANDARDS IN THE MOBILE SERVICE

Within the ITU-R, Working Party 8A (WP 8A) is responsible for systems in the Land Mobile Service except for IMT-2000.

Recommendation ITU-R F.1399 provides the recommended ITU-R definition for wireless access including specific definitions for Broadband Wireless Access (BWA) and Nomadic Wireless Access (NWA). Broadband Wireless Access is defined as wireless access in which connection(s) capabilities are higher than the primary rate (i.e., higher than 1 544 kbit/s). Broadband Wireless Access includes mobile, nomadic and fixed applications. Nomadic Wireless Access is defined as an application of wireless access in which the location of the end-user termination may be in different places but it must be stationary while in use. Nomadic Wireless Access includes Narrowband, Wideband, and Broadband applications. WP 8A understands that other definitions of these terms exist outside the ITU-R.

WP 8A has received several input contributions on development of one or more recommendations addressing Broadband Wireless Access as well as technical characteristics of Broadband Wireless Access systems for sharing and interference analyses. The output documents from consideration of these input contributions are contained in 3 documents; a working document toward preliminary draft new Recommendation M.[8A/BWA], a working document toward preliminary draft new Recommendation M.[8A/NBWA], and a working document toward a preliminary draft new Report M.[lms.char-bwa]. In addressing liaison and collaboration with other organizations, the ITU-R is aware that a number of organizations dealing with Radiocommunications standardization exist<sup>1</sup>.

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<sup>11</sup> WP 8A recognizes the relevant [Resolutions of GSC-10](#), in particular:

**Resolution GSC-10/06:** (GRSC) Global Radio Standards Collaboration on Wireless Access Systems including Radio Local Area Networks and Ad Hoc Networking, particularly for systems providing Broadband Wireless Access.

**Resolution GSC-10/03:** (Joint) Broadband Services in rural and remote areas.

The ITU-R is also aware that such organizations have the potential for identifying, defining and proposing solutions of particular problems of interest to the Radiocommunication Study Groups and for assuming responsibility for maintaining standards for such systems.

WP 8A is soliciting information on radio interface standards for Broadband Wireless Access systems operating in the Mobile Service for possible inclusion (by reference) in ITU-R Recommendation(s) as well as input on the structure and organization of these draft documents. The specific information being requested for each document is contained below with an explanation of the scope of work under which each is being developed. The order of presentation on each document does not imply any specific order or priority. WP 8A has made no final determination on how to address the issues presented in the working documents toward preliminary draft new Recommendations.

In providing comments to a proposed Recommendation it is important to understand the ITU-R definition of a Recommendation. An ITU-R Recommendation<sup>2</sup> is an answer to a Question or part(s) of a Question which, within the scope of existing knowledge and studies, gives specifications, data or guidance; the recommended way or ways of undertaking a specified task; or a recommended procedure or procedures for a specified application and which is considered to be sufficient to serve as a basis for international cooperation in a given context in the field of radiocommunications.

### **Question ITU-R 212-2/8**

Question ITU-R 212-2/8 was assigned to WP 8A and addresses “Nomadic Wireless Access systems including radio local area networks for mobile applications.” This question seeks to answer several specific issues focusing on the technical and spectrum issues involving implementing Nomadic Wireless Access, including radio local area networks, in the mobile service. These range from operational and technical characteristics of Nomadic Wireless Access systems in the mobile service to frequency sharing or compatibility criteria between Nomadic Wireless Access systems and other radio services.

The working document toward preliminary draft new Recommendation M.[8A/NBWA] addressing “A broadband wireless metropolitan area network Radio interface standard[s] for nomadic access systems in the mobile service operating below 6 GHz” ([Attachment 1](#)) seeks to answer the question contained in Question ITU-R 212-2/8: What are the operational and technical characteristics of Nomadic Wireless Access systems for mobile applications? Contributions should take into account the proposed working document toward preliminary draft new Recommendation M.[8A/BWA] on radio interface standards for Broadband Wireless Access systems in the mobile service operating below 6 GHz ([Attachment 2](#)).

### **Draft new Question M.[8A/BWA]**

WP 8A has developed a draft new Question M.[8A/BWA] addressing “broadband wireless access systems for the mobile service.” This question seeks to answer several specific issues focusing on the technical and spectrum issues involving implementing Broadband Wireless Access in the mobile service. These range from operational and technical characteristics of Broadband Wireless Access systems in the mobile service, including radio interface standards to frequency sharing or compatibility criteria between Broadband Wireless Access systems and other radio services. This question addresses the larger category of Broadband Wireless Access for the mobile service.

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<sup>2</sup> 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 Study Group.

The working document toward preliminary draft new Recommendation M.[8A/BWA] addressing “Radio interface standards for Broadband Wireless Access systems in the mobile service operating below 6 GHz” ([Attachment 2](#)) seeks to answer the Draft New Question M.[8A/BWA]: What are the applicable radio interface standards for Broadband Wireless Access systems in the mobile service? Contributions should take into account the proposed working document toward preliminary draft new Recommendation M.[8A/NBWA] on radio interface standards for Nomadic Broadband Wireless Access systems in the mobile service operating below 6 GHz ([Attachment 1](#)).

**Working Document towards a preliminary draft new Report M.[lms.char-bwa]**

At the September 2005 meeting of WP 8A, two input contributions on characteristics of Broadband Wireless Access systems were received. This work was seen as complementary to, but separate from, that being addressed by the two working documents toward preliminary draft new Recommendations discussed in the paragraphs above. These contributions were combined into a single working document shown in [Attachment 3](#).

This document is a working document toward preliminary draft new Report on characteristics of Broadband Wireless Access systems operating in the mobile service for frequency sharing and interference analyses. Specifically, WP 8A is soliciting comments on the essential operational and technical characteristics to be used in sharing and interference analyses.

**Attachment 1:** Annex 12 to Doc. 8A/277 – Working document towards preliminary draft new recommendation ITU-R M.[8A/NBWA] “A broadband wireless metropolitan area network radio interface standard[s] for nomadic access systems in the mobile service operating below 6 GHz.”

**Attachment 2:** Annex 13 to Doc. 8A/277 – Working document towards Preliminary Draft New Recommendation ITU-R M.[8A/BWA] “Radio interface standards for broadband wireless access systems in the mobile service operating below 6 GHz.”

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**Attachment 3:** Annex 09 to Doc. 8A/277 – Working document towards a PDN Report M.[LMS.CHAR-BWA] on Characteristics of Broadband Wireless Access systems operating in the Mobile Service for frequency sharing and interference analyses.

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**Submission of inputs:** Please send any inputs/comments you may have on the above topics to Mr. Colin Langtry, ITU-R Study Group 8 Counsellor ([colin.langtry@itu.int](mailto:colin.langtry@itu.int)) by 13 March 2006.

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