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Project	IEEE 802.16 Broadband Wireless Access Working Group			
Title	Report on the Sixth Meeting of ITU-R JRG 8A-9B (Wireless Access)			
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Re:	Liaison report.			
Abstract	This contribution provides a highlights report on the results of the Sixth Meeting of the ITU-R Joint Rapporteur Group 8A-9B (JRG 8A-9B), held on 12-16 July 1999 in Ottawa, Canada. This is provided for information of the members of IEEE 802.16.			
Purpose	For information only.			
Notice	This document has been prepared to assist the IEEE 802.16. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.			
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# Report on the Sixth Meeting of the ITU-R Joint Rapporteur Group 8A-9B, held on 12-16 July 1999 in Ottawa, Canada, for information of the members of IEEE 802.16

José Costa Nortel Networks

#### Introduction

The sixth meeting of the Joint Rapporteur Group 8A-9B (JRG 8A-9B) on Wireless Access was held from 12 - 16 July 1999 in Ottawa, Canada, with 56 participants from 10 countries, 5 Recognized Operating Agencies (ROA), 9 Scientific or Industrial Organizations (SIO), 1 International Organization and the BR, ITU (Attachment 15<sup>1</sup>). Nortel Networks hosted this meeting.

This contribution presents a summary of the highlights for information of the members of IEEE 802.16. The report of the Principal Rapporteurs, ITU-R Joint Rapporteur Group 8A-9B, Document 8A-9B/173, is available from <a href="http://www.itu.int/was/docs/index.html">http://www.itu.int/was/docs/index.html</a>

## **Highlights**

RLAN frequency Sharing: At this meeting the JRG 8A-9B completed the work on a draft new Recommendation on "RLAN EIRP density limit and operational restrictions for protection of MSS feeder links in the 5 GHz band."

*Block based frequency arrangements:* a new Working Document was prepared addressing the possibility of amending Recommendations ITU-R F.748-3 and F.749-1 for the 25/26/28 and 38 GHz bands (Attachment 1).

Frequency bands for FWA: the Working Document on "Bands Under Study for Terrestrial FWA Systems and a Summary of Related Sharing Requirements" was updated (Attachment 2). It was agreed that the number of bands listed needs reduction and rationalization, and some progress was made in agreement on broad principles for so doing. A key factor to be agreed by correspondence now is the minimum available bandwidth to be deemed viable at any candidate frequency, and this choice must reflect several factors. The framework for a new PDNR from the last meeting was also updated (Attachment 3), "[Suggested Frequency Bands for Terrestrial FWA Systems and Related Spectrum Management Issues]").

FWA using ATM: The working document towards a PDNR on FWA using ATM was updated (Attachment 7). It was noted that Question 220/9 should be amended to include other packet-type networks such as IP. The draft revision of Question 220/9 and draft new Question [9B/blocks] are given in Attachment 8.

FWA Handbook: Attachment 9 contains the revised table of contents for the update to Volume I of the Land Mobile (including Wireless Access) Handbook and the draft material for the contents is contained in Attachment 10.

Performance requirements: A working document towards a preliminary draft new Recommendation on "Performance and QoS requirements and objectives for fixed wireless access (FWA) to Internet protocol (IP) networks" was prepared (Attachment 11).

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The attachments listed in this report the attachments to the report of the JRG 8A-9B Principal Rapporteurs (ITU-R Document 8A-9B/173) as listed in Annex 1, available from <a href="http://www.itu.int/was/docs/index.html">http://www.itu.int/was/docs/index.html</a>

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*Vocabulary:* The list of terms and definitions was updated towards an addendum to the new Recommendation ITU-R F.1399 on Vocabulary for Wireless Access. The list is contained in Attachment 13.

Frequency sharing between FWA and MWA: A Preliminary Draft New Recommendation (PDNR) was adopted describing the methodology to assess the frequency spectrum requirement and traffic handling capability for coexisting MWA and FWA systems.

Spectrum requirements for broadband RLANs: a short report (see Attachment 14) was produced summarising the future work plan and technical items to be studied, such as calculating the spectrum requirement for generic Nomadic Wireless Access (NWA) models, identifying candidate frequency bands, performing sharing studies, and analysing interference mitigation techniques.

#### Further Work of the JRG 8A-9B

The work will continue by correspondence through the JRG e-mail reflector address<sup>2</sup>:

#### jrg8a-9bwas@itu.int

The next JRG 8A-9B meeting is scheduled to be held in February/March 2000 in conjunction with the ITU-R WP8A meeting period (Geneva, 28 February - 10 March 2000).

The URL for the ITU-R JRG 8A-9B web site is <a href="http://www.itu.int/was">http://www.itu.int/was</a>

Those wishing to subscribe to the e-mail reflector should send an e-mail to the following address: "mailserv@itu.int" with the following single line in the text: "subscribe jrg8a-9bwas".

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## List of working documents from the sixth meeting of the JRG 8A-9B which are available in the report of the meeting -- Document 8A-9B/173 (http://www.itu.int/was/docs/index.html)

Attachments (to ITU-R Document 8A-9B/173)		
1	Channel arrangements based on blocks (sub-bands) (Doc. 8A-9B/TEMP/65)	8
2	Bands under study for terrestrial FWA systems (Doc. 8A-9B/TEMP/62)	11
3	Suggested frequency range for terrestrial FWA systems (Doc. 8A-9B/TEMP/66)	34
4	Suggested frequency range for FWA systems, 3.4 - 3.8 GHz (Doc. 8A-9B/TEMP/63)	45
5	Characteristics of FWA systems to be used in performing sharing studies with other service systems (Doc. 8A-9B/TEMP/64)	47
6	Liaison Statement to ITU-T SG 9 on broadband wireless access standards (Doc. 8A-9B/TEMP/56)	50
7	PDNR on broadband FWA using ATM (Doc. 8A-9B/TEMP/50)	52
8	Draft new Question [9B/blocks] and draft revision of Question 220/9 (Doc. 8A-9B/TEMP/53)	66
9	Working Document – Amendments to the table of contents for the Edition 2 of the FWA handbook (Doc. 8A-9B/TEMP/57)	70
10	Material for the update to the FWA handbook (Document 8A-9B/58)	75
11	Performance and Quality of Service (QoS) requirements and objectives for FWA to IP networks (Doc. 8A-9B/TEMP/54)	90
12	Development of QoS Recommendations (Doc. 8A-9B/TEMP/55)	98
13	Working Document: Additional vocabulary of terms for fixed wireless access (Doc. 8A-9B/TEMP/59)	99
14	Work Plan for spectrum requirements for broadband nomadic wireless access (Doc. 8A-9B/TEMP/52)	103
15	List of input documents (ADM/4)	105
16	List of participants (ADM/2(Rev.1))	108
17	New structure (Doc. 8A-9B/TEMP/61)	110

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