

IEEE 802.16 Session #9 Closing Plenary Report

Wireless High-Speed Unlicensed Metropolitan Area Networks (WirelessHUMAN™) Study Group

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WirelessHUMAN™ Update

- Reviewed 8 contributions
- Achieved consensus on selecting standards to utilize/modify:
 - MAC: 802.16
 - PHY: 802.11a / HIPERLAN/2
- Drafted PAR and 5 criteria

WirelessHUMAN™ PAR Scope

This standard specifies the physical layer and media access control layer of the air interface of interoperable fixed broadband wireless metropolitan area network systems including point-to-multipoint. The standard enables access to data, video, and voice services with quality of service in unlicensed bands designated for public network access. It will focus on the 5-6 GHz range and may be applied to unlicensed bands between 2 and 11 GHz. The WirelessHUMAN standard will utilize or modify applicable elements from the following:

MAC: 802.16

PHY: 802.11a ; HIPERLAN/2

The development of the WirelessHUMAN standard will follow the timeline as shown in Appendix A.

WirelessHUMAN™ Timeline

- Call For Proposals for WirelessHUMAN PHY/MAC: Nov 2000)
 - PHY: Modifications of 802.11a / HIPERLAN/2
 - MAC: Modifications of 802.16
- Review proposals : Jan 2001
- Select candidate proposals at Interim meeting: Feb 2001
- Decision on specific modifications: March 2001
- First Draft Standard: May 2001
- Comment Resolutions: July 2001
- Second Draft Standard: Sep 2001
- Finalize WirelessHUMAN Standard: Nov 2001

Purpose of Proposed Project

To enable rapid worldwide deployment of innovative, cost-effective and interoperable multi-vendor broadband wireless metropolitan area network products operating in the unlicensed bands. To facilitate competition in broadband access by providing fixed wireless alternatives to wireline broadband access. Identify techniques to tolerate interference in the unlicensed bands, facilitate strategies for coexistence with other unlicensed band systems such as 802.11a, and maximize the carrying capacity of the unlicensed bands. Encourage consistent worldwide allocation, and accelerate the commercialization of unlicensed broadband wireless access spectrum. Utilization of unlicensed frequencies will address a market that includes residences, Small Office-Home Office (SOHO), telecommuters and Small and Medium Enterprises (SME).

Motion (as approved by 802.16)

The proposed WirelessHUMAN™ PAR be forwarded to the IEEE 802 SEC at least 30 days prior to the start of the following IEEE 802 Plenary Session, subject to a comments from IEEE 802.11 and 802.15 and a comment and revision process on the 802.16 email reflector.