

Radiocommunication Study Groups



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TECHNOLOGY

Institute of Electrical and Electronics Engineers (IEEE)

PARAMETERS OF RADIO INTERFACE TECHNOLOGIES

(COPY FOR INFORMATION TO WP 5A)

1 Source information

This contribution was developed by IEEE Project 802®, the Local and Metropolitan Area Network Standards Committee (“IEEE 802”), an international standards development committee organized under the IEEE and the IEEE Standards Association (“IEEE-SA”).

The content herein was prepared by a group of technical experts in IEEE 802 and industry and was approved for submission by the IEEE 802.16™ Working Group on Wireless Metropolitan Area Networks, the IEEE 802.18 Radio Regulatory Technical Advisory Group, and the IEEE 802 Executive Committee, in accordance with the IEEE 802 policies and procedures, and represents the view of IEEE 802.

2 Discussion

The IEEE thanks Working Party 5D (WP 5D) for the liaison letter ([IEEE L802.16-08/048](#)) requesting parameters and other information for IMT radio interface technologies in light of WRC-07 decisions. Our response below addresses all three topics raised in the liaison statement.

1) Current and planned relevant specifications

WP 5D requests external organizations “*to inform it if they have developed, are developing, or plan to develop specifications for the frequency ranges identified by WRC-07 for IMT.*”

IEEE Std 802.16 and IMT-2000 OFDMA TDD WMAN support all the frequency ranges identified for IMT, including those identified by WRC-07.

IEEE 802.16 Working Group is currently developing a revision to IEEE Std 802.16 and expects to submit it, including TDD and FDD, as reflected in the M.1457 roadmap and the WP 5D Chairman’s report (Doc. 5D/242). In addition, the IEEE 802.16 WG is developing an amendment P802.16m which is expected to form the basis for a submission towards IMT-Advanced, as stated previously in IEEE contribution 8F/1083. In each case, the standard will include support for all the frequency ranges identified for IMT, including those identified by WRC-07.

2) Characteristics of IMT radio interfaces

WP 5D requests external organizations to provide “*information about the characteristics of IMT radio interfaces appropriate for these frequency ranges. If this information is not yet available, ITU-R would appreciate an indication of when it could be provided.*”

Characteristics of the radio interfaces in IEEE Std 802.16 and IMT-2000 OFDMA TDD WMAN are already contained in Recommendation ITU-R M.1457.

3) IMT Parameters needed for the studies

The WP 5D liaison letter also states that “*The urgency is greater for the 698-862 MHz band, because some forthcoming studies are expected in the near future, and the parameters of IMT in this band are planned to be determined during the next meeting of the relevant Working Party of ITU-R (8-15 October 2008, with a 1 October 2008 submission deadline).*”

With respect to the band 698-862 MHz and the parameters listed in the Annex to the liaison letter, IEEE notes that most of the items in Section 1 “Radio Interface Parameters” are already contained in M.1457 for IMT-2000 OFDMA TDD WMAN.

As for Sections 2 and 3, and some parameters in Section 1 of the Annex such as “interference criteria”, the IEEE has stated to the ITU-R in its previous contributions (Doc. 6-8-9/52) that system and deployment parameters used for sharing studies are best provided by industry groups such as the WiMAX Forum.

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