802.16.1 Task Group
CALL FOR CONTRIBUTIONS ON
MAC-LAYER MODELING
Session #7.5
Deadline: 30 May 2000

Session #7.5 of the IEEE 802.16 Working Group on Broadband Wireless Access will be held from 30 May - 2 June 2000 in Boulder, Colorado, USA. This session will involve only the 802.16.1 Task Group.

The Working Group's 802.16.1 Task Group invites contributions addressing Medium Access Control (MAC) modeling and protocol verification.

Conditions to be simulated should reflect the Functional Requirements Document (IEEE 802.16s-99/00r1). This includes the various bearer services given there in Table 1, using assumptions consistent with that document. Also, total throughput and throughput for individual services should be reported, as well as delay and jitter on an overall and per-service basis. The number of users assumed should likewise be consistent with the functional requirements, with locations randomly assigned within the cell served by the base station. Signal strength assumptions should be line of sight in clear weather. Simulation should also cover cases with rain fade at several levels of severity up to 40 dB, and should include cases where only a fraction of users are subject to rain fade. Assumptions about the scheduling process should be stated explicitly.

Contributions on the following items are requested not excluding other relevant issues:
• Proposals specifying the parameters and the ranges of the parameters to be used in the simulations
• Proposals for parameterization of the physical channel for MAC simulation purposes
• Methodology for MAC protocol verification

Contributions must be submitted using Revision 7 or higher of the 802.16 Document Submission Template <http://ieee802.org/16/docs/802_16_template.doc>. Submissions will be considered non-confidential and will be posted, as soon as possible following receipt, for public access on the 802.16 Web Site.

Submit your contributions to all of the following:
• Carl Eklund (802.16.1 MAC Chair) <mailto:carl.eklund@nokia.com>
• Baya Hatim (802.16.1 MAC Secretary) <mailto:bayahatim@aol.com>
• Lou Olsen (802.16.1 Chair) <mailto:louis.olsen@teligent.com>
• Roger Marks (802.16 Chair) <mailto:marks@nist.gov>