

**IEEE 802 LMSC  
OFFICIAL TUTORIAL REQUEST FORM**

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**TUTORIAL SPONSOR (WG Chair):** Roger Marks  
**DATE SUBMITTED:** 22 October 2001  
**Requester Name & Email:** Roger Marks <r.b.marks@ieee.org>

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**1. TITLE OF TUTORIAL:** "The 802.16 MAC: It's done, but what is it?"

**2. NAME OF PRESENTERS, THEIR AFFILIATIONS AND CONTACT INFO:**

Roger Marks, NIST <r.b.marks@ieee.org>  
 Carl Eklund, Nokia <carl.eklund@nokia.com>  
 Ken Stanwood, Ensemble Communications Inc. <ken@ensemble.com>  
 Stanley Wang, Ensemble Communications Inc. <stanley@ensemble.com>

**3. ABSTRACT:** (a brief paragraph describing content of the presentation)

The IEEE 802.16 Working Group on Broadband Wireless Access has virtually completed IEEE Standard 802.16, the core WirelessMAN standard. This adds a new and fundamentally different MAC to the 802 portfolio. The 802.16 MAC supports a metropolitan area network, not a local area network. It assumes a point-to-multipoint topology, with a controlling base station that connects subscriber stations not to each other but to various public networks linked to the base station. It is a connection-oriented MAC that carries arbitrary protocols transparently, with full Quality of Service support. It places great emphasis on mechanisms for efficient bandwidth allocation, but it leaves the specific implementation of scheduling mechanisms to the vendor or operator. A privacy sublayer, using an authenticated key management protocol, provides encryption and protection from theft of service.

In this tutorial, we provide an overview of the 802.16 MAC. We also summarize some of the MAC enhancements in development under amendment PARs 802.16a and 802.16b.

**4. ALLOCATED DAYS AND TIMES:** (Please indicate your 1<sup>st</sup> and 2<sup>nd</sup> choices below. All tutorials are scheduled on a first come first basis).

Monday	6:30-8:00 p.m.	[1]
Monday	8:00-9:30 p.m.	[ ]
Tuesday	6:30-8:00 p.m.	[ ]
Tuesday	8:00-9:30 p.m.	[2]

**5. DEADLINE DATE:**

All official tutorial request forms must be submitted at least 45 days prior to the start of the next IEEE 802 LMSC Plenary Meeting. Please refer to the future meetings list on the IEEE 802 Web Site at: <http://grouper.ieee.org/groups/802/meeting>

**6. APPROVAL AND CONFIRMATION:**

**7. All official tutorial requests must sent to Dawn Slykhouse at [802info@ieee.org](mailto:802info@ieee.org) for final approval and confirmation with copies to Buzz Rigsbee [everett.o.rigsbee@boeing.com](mailto:everett.o.rigsbee@boeing.com) and to Jim Carlo [jcarlo@ti.com](mailto:jcarlo@ti.com). A confirmation of your request indicating time slot assigned will be sent within 10 days of your submission.**