

Please return or FAX to: Secretary, IEEE-SA Standards Board Patent Committee  
 Institute of Electrical and Electronics Engineers, Inc.  
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 Piscataway, NJ 08855 USA  
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*No license is implied by submission of this Letter of Assurance*

**1. PATENT HOLDER/ORGANIZATION:**

Legal Name of Organization: Sun Microsystems, Inc.

**2. PATENT HOLDER'S CONTACT FOR LICENSE APPLICATION:**

Name & Department: Noreen A. Krall, Intellectual Property Department  
 Address: 4120 Network Circle, M/S USUN05-204, Santa Clara, CA 95054  
 Telephone: (408) 720-4558 Fax: (408) 720-2006 E-mail: noreen.krall@sun.com

**3. IEEE STANDARD or PROPOSED IEEE STANDARD:**

Number: IEEE 802.3ah  
 Title: Ethernet for Subscriber Access Networks (a.k.a. Ethernet in the First Mile)

**4. PATENT HOLDER'S POSITION REGARDING LICENSING ESSENTIAL PATENT RIGHTS**

If the Patent Holder owns or controls granted patent(s) and/or pending applications that it believes may be infringed by compliance with the Proposed IEEE Standard, please specify the patent number, published application, and/or relevant claims. (A patent search is not required.)

Patent Number(s) (if known): U.S. 5,784,559; U.S. 6,029,202

Relevant Claims (optional): \_\_\_\_\_

The Patent Holder states that its position with respect to licensing such patent(s) is as follows (check one box only):

- 1. The Patent Holder is prepared to grant a free license to an unrestricted number of applicants on a worldwide, non-discriminatory basis to comply with the [Proposed] IEEE Standard.
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- 3. The Patent Holder is unwilling to grant licenses according to the provisions of either 1 or 2 above.

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- 4. I am not aware of any patent(s) and/or patent claim(s) that my company may hold that would be relevant to the subject matter of the [Proposed] Standard

**5. SIGNATURE**

Print name of authorized person: Noreen A. Krall

Title of authorized person: Director, Systems Patent Group, Intellectual Property Law

Signature of authorized person: [Handwritten Signature] Date: 5/15/03

*Note: This assurance applies from the date of the standard's approval to the date of the standard's withdrawal and is irrevocable during that period.*