

LETTER OF ASSURANCE FOR ESSENTIAL PATENTS

Please return via mail,
e-mail (.pdf), or FAX to:

Secretary, IEEE-SA Standards Board Patent Committee
Institute of Electrical and Electronics Engineers, Inc.
445 Hoes Lane
Piscataway, NJ 08854 USA
FAX (+1 732-875-0524) e-mail: patcom@ieee.org

No license is implied by submission of this Letter of Assurance

A. PATENT HOLDER/ORGANIZATION:

Legal Name of Organization: Cisco Systems, Inc.

B. PATENT HOLDER'S CONTACT FOR LICENSE APPLICATION:

Name & Department: Dan Lang Legal
Address: 170 West Tasman Drive San Jose, Ca 95134
Telephone: 408 526-6672 Fax: 408 526 5952 E-mail: standards-ipr@cisco.com
URL: _____

Note: The IEEE takes no position with respect to the reasonableness of rates, terms, and conditions of the license agreements offered by patent holders or patent applicants. To that end, the IEEE will not review and does not endorse the contents nor confirm the continuing accuracy or consistency of any web sites listed above.

C. IEEE STANDARD or PROPOSED IEEE STANDARD:

Number: IEEE P1588 / D1.2
Title: Draft Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems

D. PATENT HOLDER'S POSITION REGARDING LICENSING ESSENTIAL PATENT RIGHTS:

In accordance with Clause 6 of the *IEEE-SA Standards Board Bylaws*, the Patent Holder hereby declares that its licensing position with respect to any patent(s) and/or patent application(s) that it may hold or control, the use of which would be essential to create a compliant implementation of either mandatory or optional portions of the [Proposed] IEEE Standard identified above, is as follows (*check one box only*):

- 1. The Patent Holder will grant a license without compensation to an unrestricted number of applicants on a worldwide, non-discriminatory basis with reasonable terms and conditions to comply with the [Proposed] IEEE Standard.
- 2. The Patent Holder will grant a license under reasonable rates to an unrestricted number of applicants on a worldwide, non-discriminatory basis with reasonable terms and conditions to comply with the [Proposed] IEEE Standard.
- 3. The Patent Holder is unwilling to grant licenses according to the provisions of either 1 or 2 above.
- 4. The Patent Holder states that, without conditions, it will not enforce any of its present or future patent(s) against any person or entity creating a compliant implementation of the [Proposed] IEEE Standard.
- 5. I am not aware of any patent(s) and/or patent application(s) that my company may hold or control that would be essential to create a compliant implementation of the [Proposed] IEEE Standard.

[Note: Completion of the following section is optional. Nothing in this Letter of Assurance shall be interpreted as giving rise to a duty to conduct a patent search.]

If the Patent Holder owns or controls patent(s) and/or application(s) that it believes may be essential to create a compliant implementation of the [Proposed] IEEE Standard, please specify the following:

Patent/Application Number: _____
Title: _____

Patent/Application Number: _____
Title: _____


Patent/Application Number: _____
Title: _____

Use additional pages, as necessary.

E. SIGNATURE:

Print name of authorized person: Dan Lang

Title of authorized person: Senior IP Counsel

Signature of authorized person:  Date: August 22, 2006

Note: This assurance applies from the date of the standard's approval to the date of the standard's withdrawal and is irrevocable upon acceptance by the IEEE-SA Standards Board Patent Committee.

The IEEE Patent Policy and the procedures used to execute that policy are documented in the IEEE-SA Standards Board Bylaws and the IEEE-SA Standards Board Operations Manual, available at <http://standards.ieee.org/resources/index.html#guides>. These documents must be read and understood before completing and submitting this form.