

November 27, 2006

Via Facsimile

Mr. David Ringle  
Patent Committee Administrator  
IEEE Standards Department  
445 Hoes Lane, P.O. Box 1131  
Piscataway, New Jersey  
USA 08855-1331

Dear Mr. Ringle:

Re: IEEE 802.1ah – Provider Backbone Bridges (the “IEEE 802.1ah Standard”)

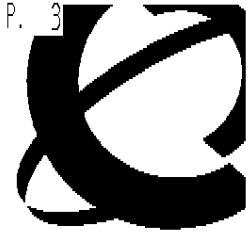
Nortel Networks submits this patent disclosure letter (the “IEEE 802.1ah Standard”) together with the attached Letter of Assurance for Essential Patents (LOA) with respect to the IEEE 802.1ah Standard under development.

Nortel Networks Limited believes that its US patents 5,959,990 and 6,111,876 may be relevant and potentially essential with respect to at least portion(s) of the IEEE 802.1ah Standard, if approved and published by IEEE.

In this respect, Nortel submits that to the extent any claims of either of these patents is essential to practice the approved and adopted IEEE 802.1ah Standard, Nortel Networks Limited declares its licensing position that it is willing, upon written request, to make available non-exclusive licenses under such patents on a non-discriminatory basis and under reasonable terms and conditions to comply with such resulting issued IEEE 802.1ah Standard.

It is understood that if this IEEE standard is subsequently withdrawn, Nortel has no obligation to license a party requesting a license after such withdrawal.

Michelle Lee  
IP Counsel  
Nortel Networks  
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This letter does not grant any right to IEEE with respect to Nortel copyrights or other intellectual property rights that relate to the proposed IEEE 802.1ah Standard. Any party that would be interested in such licenses under the above referenced patent may write to Richard Weiss, Deputy IP Counsel - Licensing, 2221 Lakeside Boulevard, M/S 991/14/B20, Richardson, Texas 75082 or by fax at (972) 684-3127.

Regards,

Michelle Lee

ML/nm

- cc Tony Jeffree (IEEE 802.1 Working Group Chair)
- Paul Bottorff (802.1ah Editor)
- Richard Weiss, Nortel Networks

**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](mailto:patcom@ieee.org)

*No license is implied by submission of this Letter of Assurance*

**A. PATENT HOLDER/ORGANIZATION:**

Legal Name of Organization: Nortel Networks Limited

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

Name & Department: Richard Weiss, Deputy IP Counsel - Licensing

Address: 2221 Lakeside Boulevard, M/S 991/14/B20, Richardson, Texas, 75082

Telephone: 972-685-4739

Fax: 972-684-3127

E-mail: weissr@nortel.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: Proposed IEEE 802.1ah Standard

Title: Provider Backbone Bridges

**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 the patent identified below 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: United States 5,959,990

Title: VLAN FRAME FORMAT

Patent/Application Number: United States 6,111,876  
Title: VLAN FRAME FORMAT

Patent/Application Number: \_\_\_\_\_  
Title: \_\_\_\_\_

*Use additional pages, as necessary.*

**E. SIGNATURE:**

Print name of authorized person: MICHELLE LEE

Title of authorized person: IP COUNSEL

Signature of authorized person: *Michelle Lee* Date: Nov. 27, 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.*