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To the Honorable Commissioner of Patents a

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and original documents or copy thereof.

1. Name of conveying party(ies):

Thomas P. Hardjono

06/08/01

2. Name and address of receiving party(ies):

Name: Nortel Networks Limited

Internal Address: World Trade Center of Montreal

Street Address: 380 St. Antoine Street West, 8th Floor

Montreal, Quebec H2Y 3Y4

City: State: ZIP:

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: June 4, 2001

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: June 8, 2001

A. Patent Application No.(s)

09/877/50

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Jay Sandvos

Internal Address:

Street Address: Bromberg & Sunstein LLP

125 Summer Street

City: Boston State: MA ZIP: 02110-1618

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Jay Sandvos

Name of Person Signing

Signature

June 2001

Date

Total number of pages including cover sheet, attachments, and document: 4

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

(Form PTO--1595--Recordation Form Cover Sheet

PATENT REEL: 011892 FRAME: 0239

16973 U.S. PTO
09/877/50
06/08/01

06/13/2001 MLN00022 09/877/50
40.00 US
FC-501

ASSIGNMENT

ASSIGNOR: Thomas Hardjono

ASSIGNEE: Nortel Networks Limited
World Trade Center of Montreal
380 St. Antoine Street West, 8th Floor
Montreal, Quebec H2Y 3Y4
Canada

STATE OF INCORPORATION OF ASSIGNEE: N/A

INVENTION: SPATIAL KEY-TREES FOR KEY MANAGEMENT IN WIRELESS ENVIRONMENTS

ATTORNEY DOCKET: 2204/A82

SERIAL NO: Not yet assigned

FILED: Herewith

Assignor is the sole inventor (if only one inventor is listed above) or a joint inventor (if more than one inventor is listed above) of the above invention (the "Invention") described in a United States patent application (the "Application") bearing the above attorney docket number and having as a title the above name for the Invention. The Application has a Patent and Trademark Office filing date and serial number as indicated above, or if no filing date and serial number are shown, has a Declaration executed by Assignor contemporaneously with this Assignment.

For valuable consideration, receipt of which is acknowledged, each Assignor hereby assigns to Assignee (which term shall include Assignee's successors and assigns), all of Assignor's right, title and interest in the Invention, all improvements therein, the Application and all priority rights arising therefrom, and any patents, and any reissues and extensions thereof, which issue in any country upon any patent applications which correspond with any of the

following: the Application, any divisional, continuation-in-whole, or substitute United States application which is based on the Application; or any continuation-in-part United States application (including divisions, continuations-in-whole or -in-part, and substitutions thereof or therefor) based in-part on any of the above described applications.

Each Assignor further agrees that such Assignor and Assignor's heirs and legal representatives will, without further consideration, cooperate with Assignee in the prosecution of all of the above applications, execute, verify, acknowledge and deliver all such further papers, including applications for patents and for reissues and extensions therefor, and instruments of assignment and transfer thereof, and will communicate any facts known to Assignor relating to the Invention, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee. Each Assignor further agrees that such Assignor will, without further compensation to Assignor during the term of such Assignor's employment by Assignee and thereafter for reasonable compensation as determined by Assignee, perform such other acts as may be reasonably required when requested by Assignee, including attending depositions, preparing and executing declarations and affidavits and testifying as a witness, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee.

