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Original document or copy thereof.

1. Name of Party(ies) conveying an interest: Shahid Shoaib Fujio Watanabe Jingjun Cao Shoji Kurakake Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and Address of Party(ies) receiving an interest: Name: DoCoMo Communications Laboratories USA, Inc. Internal Address: Suite 300 Street Address: 181 Metro Drive City: San Jose State/Zip: California 95110 Additional name(s) and addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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3. Description of the interest conveyed: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Change of Name Other: <input type="checkbox"/> Security Agreement <input type="checkbox"/> Merger Execution Date: April 5, 2002	
4. Application number(s) or patent number(s). Additional sheet attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If this document is being filed together with a new application, the execution date of the application is: <u>April 11, 2002</u> Date A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

5. Name and address of party to whom correspondence concerning document should be mailed: BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312)321-4200	6. Number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41) \$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to Deposit Account No. 23-1925 8. <input checked="" type="checkbox"/> Please charge any deficiencies in fee or credit any overpayment to Deposit Account No. 23-1925.
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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. <u>John C. Freeman</u> Name of Person Signing <u>April 11, 2002</u> Date	
Total number of pages including cover sheet, attachments, and document: <u>5</u>	

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PATENT
REEL: 012789 FRAME: 0216

ASSIGNMENT

WHEREAS, Shahid Shoaib, Fujio Watanabe, Jingjun Cao, and Shoji Kurakake, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled CONTEXT AWARE APPLICATION LEVEL TRIGGERING MECHANISM FOR PRE-AUTHENTICATION, SERVICE ADAPTATION, PRE-CACHING AND HANDOVER IN A HETEROGENEOUS NETWORK ENVIRONMENT, and described in the application filed herewith;

WHEREAS, DoCoMo Communications Laboratories USA, Inc., a corporation organized and existing under the laws of the State of Delaware, having a place of business at 181 Metro Drive Suite 300 San Jose, CA 95110, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, continuations-in-part, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

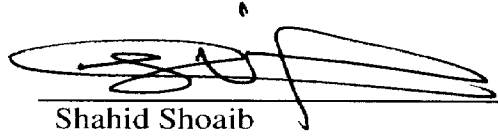
The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignors will execute and deliver to the

Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.


The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

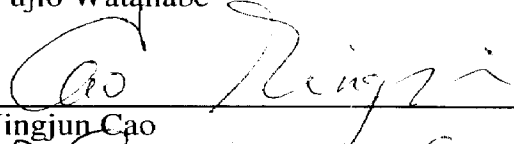
DATED: 4/5/02


Shahid Shoaib

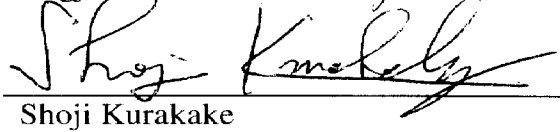
DATED: 3.19.2002


Fujio Watanabe

DATED: 4/5/02


Jingjun Cao

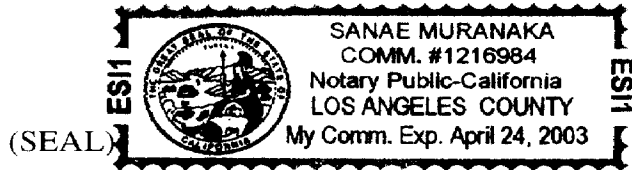
DATED: 03-19-2002


Shoji Kurakake

STATE OF California,
COUNTY OF Los Angeles ss.

I, Sanae Muranaka a Notary Public in and for the County and State aforesaid, do hereby certify that Shahid Shoaib, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 5th day of April, 2002.



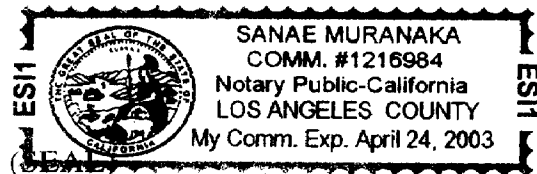
[Signature]
Notary Public

My Commission Expires: 4/24/03

STATE OF California,
COUNTY OF Los Angeles ss.

I, Sanae Muranaka, a Notary Public in and for the County and State aforesaid, do hereby certify that, Fujio Watanabe personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 19th day of March, 2002.



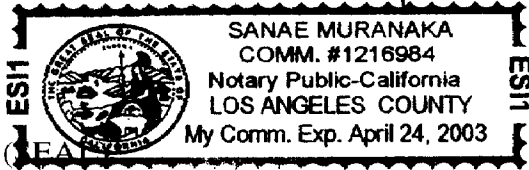
[Signature]
Notary Public

My Commission Expires: 4/24/03

STATE OF California
 COUNTY OF Los Angeles ss.

I, Sanae Muranaka, a Notary Public in and for the County and State aforesaid, do hereby certify that, Jingjun Cao personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 5th day of April, 2002.



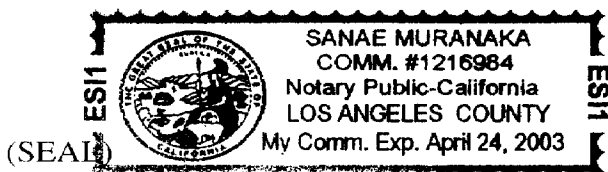
[Signature]
 Notary Public

My Commission Expires: 4/24/03

STATE OF California
 COUNTY OF Los Angeles ss.

I, Sanae Muranaka, a Notary Public in and for the County and State aforesaid, do hereby certify that, Shoji Kurakake personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 19th day of March, 2002.



[Signature]
 Notary Public

My Commission Expires: 4/24/03