

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|---|-------------------|---------------|-------------------|---------------------------|--------------|---------------------------|------------|-------------------|------------|--------------|-------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>William Edward Snaman Jr.</td> <td>05/31/2013</td> </tr> <tr> <td>Saikrishnan Krishnamurthy</td> <td>05/30/2013</td> </tr> <tr> <td>Mitchell Condylis</td> <td>05/30/2013</td> </tr> </tbody> </table> | | Name | Execution Date | William Edward Snaman Jr. | 05/31/2013 | Saikrishnan Krishnamurthy | 05/30/2013 | Mitchell Condylis | 05/30/2013 | | |
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| William Edward Snaman Jr. | 05/31/2013 | | | | | | | | | | |
| Saikrishnan Krishnamurthy | 05/30/2013 | | | | | | | | | | |
| Mitchell Condylis | 05/30/2013 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>Dell Products, LP</td> </tr> <tr> <td>Street Address:</td> <td>One Dell Way</td> </tr> <tr> <td>City:</td> <td>Round Rock</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>78682</td> </tr> </table> | | Name: | Dell Products, LP | Street Address: | One Dell Way | City: | Round Rock | State/Country: | TEXAS | Postal Code: | 78682 |
| Name: | Dell Products, LP | | | | | | | | | | |
| Street Address: | One Dell Way | | | | | | | | | | |
| City: | Round Rock | | | | | | | | | | |
| State/Country: | TEXAS | | | | | | | | | | |
| Postal Code: | 78682 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13913216</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13913216 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 13913216 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| Fax Number: 9783410136 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 978-341-0036 Email: sharon.stanizzi@hbsr.com Correspondent Name: Mary Lou Wakimura Address Line 1: 530 Virginia Road, P.O. Box 9133 Address Line 2: Hamilton, Brook, Smith & Reynolds, P.C. Address Line 4: Concord, MASSACHUSETTS 01742-9133 | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 3721.1021-000 | | | | | | | | | | |
| NAME OF SUBMITTER: | Claudia Fagan | | | | | | | | | | |
| Signature: | /Claudia Fagan/ | | | | | | | | | | |

Date:

06/07/2013

Total Attachments: 9

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Joint

ASSIGNMENT

WHEREAS, we, **William Edward Snaman Jr.**, together with co-inventor(s) **Saikrishnan Krishnamurthy** and **Mitchell Condylis** have invented a certain improvement in **Updating Object Attributes in a Lock-Coupled Namespace Traversal** described in an application for Patent,

- ☒ the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- ☐ is about to be filed in the United States Patent Office as a Provisional Application;
- ☐ the specification of which is United States Application No. [], filed [];
- ☐ the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed [], which designates the United States of America [and is assigned United States Application No. []];
- ☐ which was patented under United States Patent No. [].

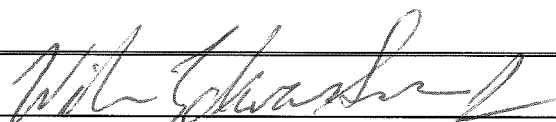
WHEREAS, **Dell Products, LP** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **One Dell Way, Round Rock, Texas 78682** desires to confirm its interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the


Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;


AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any further applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor  Date May 31, 2013
William Edward Snaman Jr.

Address 17 Jessica Drive
Nashua, New Hampshire 03060

Witness Signature 
Print Witness Name JAMES P. MCCARTHY
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Witness Signature 
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Address 60 Curve Street
Wellesley, MA 02482-4657

Inventor _____ Date _____
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Witness Signature _____

Print Witness Name _____

Address _____

Witness Signature _____

Print Witness Name _____

Address _____

Inventor _____ Date _____
Mitchell Condylis

Address 47 Oriole Drive
Bedford, NH 03110

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Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any further applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

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17 Jessica Drive
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Print Witness Name _____

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Witness Signature _____

Print Witness Name _____

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Inventor *Saikrishnan Krishnamurthy* Date 05/30/2013
Saikrishnan Krishnamurthy

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Witness Signature *Hsin Lee*

Print Witness Name Hsin Lee

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Witness Signature *Richard G. Pioso*

Print Witness Name Richard G. Pioso

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