

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>Emmanuel S. Levijarvi</td> <td>04/04/2012</td> </tr> <tr> <td>Ognian S. Mitzev</td> <td>04/04/2012</td> </tr> </tbody> </table> | | Name | Execution Date | Emmanuel S. Levijarvi | 04/04/2012 | Ognian S. Mitzev | 04/04/2012 |
| Name | Execution Date | | | | | | |
| Emmanuel S. Levijarvi | 04/04/2012 | | | | | | |
| Ognian S. Mitzev | 04/04/2012 | | | | | | |
| RECEIVING PARTY DATA | | | | | | | |
| Name: | SunGard Availability Services LP | | | | | | |
| Street Address: | 680 E. Swedesford Road | | | | | | |
| City: | Wayne | | | | | | |
| State/Country: | PENNSYLVANIA | | | | | | |
| Postal Code: | 19087 | | | | | | |
| 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>13436111</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13436111 | | |
| Property Type | Number | | | | | | |
| Application Number: | 13436111 | | | | | | |
| CORRESPONDENCE DATA | | | | | | | |
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| ATTORNEY DOCKET NUMBER: | 4756.1016-000 | | | | | | |
| NAME OF SUBMITTER: | Nicole Isabelle | | | | | | |
| Total Attachments: 3 source=47561016000asg#page1.tif source=47561016000asg#page2.tif source=47561016000asg#page3.tif | | | | | | | |

CH \$40.00 13436111

JointASSIGNMENT

WHEREAS, we, **Emmanuel S. Levijarvi and Ognian S. Mitzev**, have invented a certain improvement in **Private Cloud Replication And Recovery** 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. **13/436,111**, filed **March 30, 2012**;
- 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, **SunGard Availability Services LP** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **Commonwealth of Pennsylvania**, and having a usual place of business at **680 E. Swedesford Road, Wayne, Pennsylvania 19087** 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, the 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 the 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 the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for 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; we 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;

PATENT

REEL: 028063 FRAME: 0810

Inventor *Ognian S. Mitzev* Date 4-4-2012
Ognian S. Mitzev


Address 3333 Rutherglen Dr.
San Ramon, California 94582


Witness Signature *Robert Marrow*
Print Witness Name Robert Marrow
Address 6 Castlewood Dr
Pittsburg CA 94565

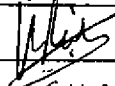
Witness Signature *Robert E. Freitas*
Print Witness Name Robert E. Freitas
Address 2481 Deerwood Drive, San Ramon, CA, 94583

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 future applications including substitution, reissue, divisional or continuation 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 4/4/2012
Emmanuel S. Levijarvi
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San Rafael, California 94903

Witness Signature 
Print Witness Name Daniel Gardner
Address 1490 Meuton St.
Danville, CA 94506

Witness Signature 
Print Witness Name CHANDRA REMY
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