

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>Kannan Raja</td> <td>04/11/2012</td> </tr> <tr> <td>Srinivas Ramanathan</td> <td>04/11/2012</td> </tr> <tr> <td>Subramanian Sreedharan</td> <td>04/11/2012</td> </tr> <tr> <td>Balamurugan Vaidhinathan</td> <td>04/11/2012</td> </tr> </tbody> </table>		Name	Execution Date	Kannan Raja	04/11/2012	Srinivas Ramanathan	04/11/2012	Subramanian Sreedharan	04/11/2012	Balamurugan Vaidhinathan	04/11/2012
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<table border="1"> <tr> <td>Name:</td> <td>EG INNOVATIONS PTE. LTD.</td> </tr> <tr> <td>Street Address:</td> <td>33A Tanjong Pagar Road</td> </tr> <tr> <td>City:</td> <td>Singapore</td> </tr> <tr> <td>State/Country:</td> <td>SINGAPORE</td> </tr> <tr> <td>Postal Code:</td> <td>088456</td> </tr> </table>		Name:	EG INNOVATIONS PTE. LTD.	Street Address:	33A Tanjong Pagar Road	City:	Singapore	State/Country:	SINGAPORE	Postal Code:	088456
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<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11781156</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11781156						
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CORRESPONDENCE DATA											
<p>Fax Number: (860)632-8269 Phone: 860-632-7200 Email: schofield@mkgip.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: MICHAUD-Kinney Group LLP Address Line 1: 306 INDUSTRIAL PARK ROAD Address Line 2: SUITE 206 Address Line 4: MIDDLETOWN, CONNECTICUT 06457</p>											
ATTORNEY DOCKET NUMBER:	1477-0001										
NAME OF SUBMITTER:	Michael K. Kinney										

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Total Attachments: 8

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DATED 11 April 2012

- (1) KANNAN RAJA
- (2) SRINIVAS RAMANATHAN
- (3) SUBRAMANIAN SREEDHARAN
- (4) BALAMURUGAN VAIDHINATHAN

as Assignors

And

EG INNOVATIONS PTE. LTD.

as Assignee

DEED OF ASSIGNMENT
Of
Inventions, Patents & Patent Applications

Yusarn Audrey
24 Raffles Place
#27-01 Clifford Centre
Singapore 048621
Tel (65) 6358 2865
Fax (65) 6358 2864
Email: enquiries@yusarn.com

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THIS DEED is made on 11 April 2012

BETWEEN

- (1) **KANNAN RAJA** of Old no: 6, New no: 11, Patel Street, Kodambakkam, Chennai - 600024. India;
SRINIVAS RAMANATHAN of 6544 Fox Hills Road, Canton, MI 48187 USA;
SUBRAMANIAN SREEDHARAN of No 16, First Street, Ex-Service man Colony Adambakkam, Chennai - 600 088. India;
BALAMURUGAN VAIDHINATHAN of 406 Aston Lane, Franklin Park, New Jersey 08823 USA (collectively the "**Assignors**"); and
- (2) **EG INNOVATIONS PTE. LTD.** a company incorporated in Singapore having its office at 33A Tanjong Pagar Road Singapore 088456 (the "**Assignee**")

WHEREAS:

The Assignors have invented the inventions described in Schedule 1 (hereinafter called the "**Inventions**") and the patents and patent applications attached in Schedule 2 (hereinafter called the "**Patents**" and "**Patent Applications**").

NOW THIS DEED HEREBY WITNESSES as follows:

1. ASSIGNMENT

1.1 In consideration of the sum of S\$1/- now paid by the Assignee to the Assignors (the receipt of which is hereby acknowledged by the Assignors), subject to clause 2 below, the Assignors hereby **ASSIGN** absolutely to the Assignee free from encumbrances:

- (a) all its right title and interest throughout the world in and to:
 - (i) the Inventions, Patents and Patent Applications;
 - (ii) any improvements (the "**Improvements**") on the Inventions, Patents and Patent Applications heretofore or hereafter made or acquired by the Assignors (or any of them);
 - (iii) all intellectual property rights in the Inventions and Improvements; and
 - (iv) any and all patent or patents on the Inventions and/or Improvements that may be granted anywhere in the world;

together with all rights and powers arising or accrued therefrom including the right to sue for damages and other remedies in respect of any infringement of such rights or other acts within the scope of the claims of any published specification of any patent on the Inventions and/or Improvements;

- (b) the right to apply for prosecute and obtain patent or similar protection throughout the world in respect of the Inventions and/or the Improvements to the intent that the grant of any patents or similar protection shall be in the name of and vest in the Assignee.

2. FURTHER ASSURANCE

2.1 The Assignors further covenant that:

- (a) at the direction and expense of the Assignee they will at all times hereafter do all such acts and execute all such documents as may reasonably be necessary or desirable both to secure the vesting in the Assignee of all rights assigned to the Assignee hereunder in any country whether patent applications have been made or not and to assist in the resolution of any question concerning any patent applications in respect of the Inventions and/or the Improvements, whether in the course of legal proceedings or otherwise to uphold the Assignee's rights herein;
- (b) each Assignor will forthwith from time to time after making any Improvement whether patentable or not disclose the same to the Assignee and if and whenever required by the Assignee but at the cost of the Assignee will give to the Assignee full particulars as to the nature of making and working the same and will (at the option of the Assignee) either apply for and endeavour to obtain or join with the Assignee in applying for patents in respect of such Improvement and when and if the same shall be obtained will at the like expense execute and do all documents acts and things necessary for vesting the same and the full and exclusive benefit thereof in the Assignee.

3. GOVERNING LAW

3.1 Governing law: This Deed shall be governed by and construed in accordance with the laws of Singapore.

Jurisdiction: The parties hereby submit to the non-exclusive jurisdiction of the Singapore courts.

SCHEDULE 1

Inventions

MONITORING SYSTEM FOR VIRTUAL APPLICATION ENVIRONMENTS

ABSTRACT

A monitoring system (10) for virtual application environments comprising: at least one physical machine (16) executing a first operating system; at least one virtual machine (18) operating on at least one of the at least one physical machines (16), each such virtual machine (18) operating a second operating system; and an agent program (14) operating on each of the at least one physical machines (16), where, each agent program (14) is operable to obtain a first set of metrics from the first operating system, such first set of metrics including metrics in respect of each virtual machine (18) as viewed by the first operating system, and operable to connect to the second operating system of each virtual machine (18) hosted on the physical machine (16) the agent program (14) operates on and obtain a second set of metrics in respect of the virtual machine (18) from the second operating system, the agent program (14) further operable to communicate the first and second sets of metrics to a manager program (12).

IMPROVED ROOT-CAUSE APPROACH TO PROBLEM DIAGNOSIS IN DATA NETWORKS

ABSTRACT

An improved root-cause approach to problem diagnosis in data networks (100) in the form of a method (10) comprising the steps of: associating each metric in a at least one set of metrics with at least one component and/or network device (32); obtaining values for each such metric from a monitoring system (30); determining whether each such metric is indicative of a problem within the data network (34); and ranking and correlating indicative problems to determine whether a problem may be symptomatic of another problem based on an interconnection and/or interdependency between a physical machine and a virtual machine, between components or between components and network devices (48 through 76).

SCHEDULE 2

Patents/Patent Applications

MONITORING SYSTEM FOR VIRTUAL APPLICATION ENVIRONMENTS

S/No	Country	PATENT NO. /PATENT APPLICATION NO.	TITLE OF INVENTION	PRIORITY DATE / FILING DATE
1.	USA	11/781,156	MONITORING SYSTEM FOR VIRTUAL APPLICATION ENVIRONMENTS	20 July 2007
2.	PCT	PCT/SG2007/000217	MONITORING SYSTEM FOR VIRTUAL APPLICATION ENVIRONMENTS	20 July 2007
3.	Singapore	200805454-8	MONITORING SYSTEM FOR VIRTUAL APPLICATION ENVIRONMENTS	20 July 2007
4.	UK	0812844.9	MONITORING SYSTEM FOR VIRTUAL APPLICATION ENVIRONMENTS	20 July 2007

**IMPROVED ROOT-CAUSE APPROACH TO PROBLEM DIAGNOSIS IN DATA
NETWORKS**

S/No	Country	PATENT NO. /PATENT APPLICATION NO.	TITLE OF INVENTION	PRIORITY DATE / FILING DATE
1.	USA	11/829,875	IMPROVED ROOT- CAUSE APPROACH TO PROBLEM DIAGNOSIS IN DATA NETWORKS	20 July 2007
2.	PCT	PCT/SG2007/000222	IMPROVED ROOT- CAUSE APPROACH TO PROBLEM DIAGNOSIS IN DATA NETWORKS	20 July 2007
3.	Singapore	200805554-3	IMPROVED ROOT- CAUSE APPROACH TO PROBLEM DIAGNOSIS IN DATA NETWORKS	20 July 2007
4.	UK	GB 2455434 / 0813137.7	IMPROVED ROOT- CAUSE APPROACH TO PROBLEM DIAGNOSIS IN DATA NETWORKS	20 July 2007

IN WITNESS WHEREOF this Deed has been executed on the date stated at the beginning.

Assignors

SIGNED SEALED and DELIVERED
by KANNAN RAJA
in the presence of:

)
) *K Raja*
) *G. Aravind*

SIGNED SEALED and DELIVERED
by SRINIVAS RAMANATHAN
in the presence of:

) *R. Srinivas*
) *S. Srinivasan*

SIGNED SEALED and DELIVERED
by SUBRAMANIAN SREEDHARAN
in the presence of:

) *S. Subramanian*
) *S. Subramanian*

SIGNED SEALED and DELIVERED
by BALAMURUGAN VAIDHINATHAN
in the presence of:
KRISH CHANDRASEKHARAN

) *B. Vaidhinathan*
) *K. Chandrasekharan*

Assignee

THE COMMON SEAL of
EG INNOVATIONS PTE. LTD.
was hereunto affixed in the presence of)

S. R. Srinivas
Director

S. R. Srinivas
Director/Secretary