Form <b>PTO-1595</b> (Rev. 03/05) OMB No. 0651-0027 (exp. 6/30/2005)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
	ORM COVER SHEET
PATENTS ONLY TRA-096	
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.	
Name of conveying party(les)	2. Name and address of receiving party(ies)
Daniel C. Upp Chitra Wadhwa Suvhasis Mukhopadhyay Sachin Mathur	Name: TranSwitch Corporation
Bart Brosens Ramses Valvekens Kris Van Aken	Internal Address:
Additional name(s) of conveying party(ies) attached? Yes 🗸 No	
3. Nature of conveyance/Execution Date(s):	Street Address: 3 Enterprise Drive
Execution Date(s) 08/13/2004, 08/16/04, 08/19/04, 08/23/04	Í
Assignment Merger	
Security Agreement Change of Name	City: Shelton
Joint Research Agreement	State: CT
Government Interest Assignment	Country
Executive Order 9424, Confirmatory License	Country:Zip: <u>06484</u>
Other	Additional name(s) & address(es) attached? Yes 🗹 No
10/924,046 Additional numbers at	tached? ☐ Yes ☑ No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: one
Name: Gordon & Jacobson, P.C.	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00
Internal Address:	Authorized to be charged by credit card
	Authorized to be charged to deposit account
Street Address: 60 Long Ridge Road	Enclosed
Suite 407	None required (government interest not affecting title)
City: Stamford	8. Payment Information
State: CT Zip:06902	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: 203 323-1800	'
Fax Number: 203 323-1803	b. Deposit Account Number <u>07-1732</u>
Email Address:	Authorized User Name <u>David P. Gordon</u>
9. Signature: Law of Linda	10-2-07
Signature	Date
David P. Gordon Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:
rianie vi reisvii algiilitg	The state of the s

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

### ASSIGNMENT

WHEREAS, I, Daniel C. Upp, hereinafter referred to as the "Inventor", a citizen of the United States, whose post office address is 15 Pepper Tree Hill Lane, Southbury, CT 06488, have invented certain new and useful improvements in

### SONET/SDH SPE/VIRTUAL CONTAINER RETIMING WITH ADAPTIVE DUAL POINTER LEAK RATE COMPUTATION

as described and set forth in an application for Letters Patent of the United States of America, executed by me on the 13 day of August, 20 04 (Attorney Docket No. TRA-096).

AND WHEREAS, Transwitch Corporation hereinafter referred to as the "said COMPANY", a company existing under the laws of Delaware and having a place of business at 3 Enterprise Drive, Shelton, CT 06484, is desirous of acquiring or confirming its acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in and to any and all patents, both of the United States and of all foreign countries, that may be obtained therefor;

NOW, THEREFORE TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that I, the Inventors, for good and valuable considerations, the receipt and sufficiency of which I hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said COMPANY, its successors and assigns, the entire right, title and interest throughout the world, in and to our invention, inventions or improvements described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation, continuation-in-part, or substitute application which may filed on said invention, inventions or improvements in the United States or in any foreign country; and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which may be granted in the United States or in any foreign country upon said invention, inventions or improvements, to have and to hold the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

AND I do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said COMPANY, its successors and assigns, as the assignees of the entire right, title and interest in and to the same, for the sole use and benefit of said COMPANY, its successors and assigns.

AND I do hereby covenant and warrant that I have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that I have not executed and will not execute any instruments in conflict herewith.

AND I, for the conditions aforesaid, do hereby covenant and agree to and with the said COMPANY, its successors and assigns, that I, my executors, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute, and deliver any and all other instruments in writing, and any and all further applications, papers, powers, affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said COMPANY, its successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure to and vest in said COMPANY, its successors and assigns, the entire right, title and interest in and to said invention, inventions, or improvements, application or applications, patents.

> PATENT REEL: 019913 FRAME: 0501

rights, titles, benefits, privileges and advantages hereby sold, assigned, confirmed, transferred and conveyed.

The undersigned hereby grants David S. Jacobson, Esq. and David P. Gordon, Esq., the power to insert on this Assignment any further identification which may be necessary in order to comply with the rules of the U.S. Patent and Trademark Office for the recordation of this document.

IN WITNESS WHEREOF, I, Daniel C. Upp, have hereunto set my hand and seals this 13"

day of August, 2004.

Daniel

State of

County of

) ss:

BE IT KNOWN, that on this  $\frac{13}{2}$  day of  $\frac{Q_{1}}{Q_{2}}$  day of  $\frac{Q_{3}}{Q_{4}}$ , personally appeared, Daniel C. Upp to me known and known to me to be the individual described in and who executed the foregoing assignment and he acknowledged to me that he executed the same.

Notary Public

SEAL

My commission expires:

GLYNIS L. POWANDA

NOTARY PUBLIC
NOTARY PUBLIC
NOTARY PUBLIC 20 2008

### ASSIGNMENT

WHEREAS, I, Suvhasis Mukhopadhyay, hereinafter referred to as the "Inventor", a citizen of the United Kingdom, whose post office address is 5 Ashton Drive, Shrewsbury, MA 01545, have invented certain new and useful improvements in

# SONET/SDH SPE/VIRTUAL CONTAINER RETIMING WITH ADAPTIVE DUAL POINTER LEAK RATE COMPUTATION

as described and set forth in an application for Letters Patent of the United States of America, executed by me on the 1974day of AUGUST, 2004 (Attorney Docket No. TRA-096).

AND WHEREAS, Transwitch Corporation hereinafter referred to as the "said COMPANY", a company existing under the laws of Delaware and having a place of business at 3 Enterprise Drive, Shelton, CT 06484, is desirous of acquiring or confirming its acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in and to any and all patents, both of the United States and of all foreign countries, that may be obtained therefor;

NOW, THEREFORE TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that I, the Inventors, for good and valuable considerations, the receipt and sufficiency of which I hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said COMPANY, its successors and assigns, the entire right, title and interest throughout the world, in and to our invention, inventions or improvements described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation, continuation-in-part, or substitute application which may filed on said invention, inventions or improvements in the United States or in any foreign country; and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which may be granted in the United States or in any foreign country upon said invention, inventions or improvements, to have and to hold the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

AND I do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said COMPANY, its successors and assigns, as the assignees of the entire right, title and interest in and to the same, for the sole use and benefit of said COMPANY, its successors and assigns.

AND I do hereby covenant and warrant that I have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that I have not executed and will not execute any instruments in conflict herewith.

AND I, for the conditions aforesaid, do hereby covenant and agree to and with the said COMPANY, its successors and assigns, that I, my executors, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute, and deliver any and all other instruments in writing, and any and all further applications, papers, powers, affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said COMPANY, its successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure to and vest in said COMPANY, its successors and assigns, the entire right, title and interest in and to said invention, inventions, or improvements, application or applications, patents,

PATENT REEL: 019913 FRAME: 0503

rights, titles, benefits, privileges and advantages hereby sold, assigned, confirmed, transferred and conveyed.

The undersigned hereby grants David S. Jacobson, Esq. and David P. Gordon, Esq., the power to insert on this Assignment any further identification which may be necessary in order to comply with the rules of the U.S. Patent and Trademark Office for the recordation of this document.

19 TH day of AUGUST, 2004.

Suvhasis

State of

Connecticut Fair-held

County of

BE IT KNOWN, that on this 19 day of August 2007, personally appeared, Suvhasis Mukhopadhyay to me known and known to me to be the individual described in and who executed the foregoing assignment and he acknowledged to me that he executed the same.

SEAL

My commission expires:

GORDONA JACOBSON

GORDON & JACOBSON

PAGE 4/5 PAGE 22

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PAGE

TRA-096

### ASSIGNMENT

WHEREAS, we, Bart Brosens and Kris Van Aken, hereinafter referred to as the "Inventors", citizens of Belgium, whose post office addresses are respectively,

- 1) Knobaan 130, B2520 Oelegem, Belgium, and
- 2) Edelzangerslaan 25 #401, B-3010 Kessel-Lo. Belgium,

have invented certain new and usoful improvements in

## Sonet/SDH SPE/Virtual Container Retiming With Adaptive Dual Pointer Leak Rate Computation

as described and set forth in an application for Letters Patent of the United States of America, executed by us on the day of occupied 4, 2004 (Attorney Docket No. TRA-096).

AND WHEREAS, Transwitch Corporation hereinafter referred to as the "said COMPANY", a company existing under the laws of Delaware and having a place of business at 3 Enterprise Drive. Shelton, CT 06484, is desirous of acquiring or confirming its acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in and to any and all patents, both of the United States and of all foreign countries, that may be obtained therefor;

NOW, THEREFORE TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that we, the Inventors, for good and valuable considerations, the receipt and sufficiency of which we hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said COMPANY, its successors and assigns, the entire right, title and interest throughout the world, in and to our invention, inventions or improvements described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation, continuation-in-part, or substitute application which may filed on said invention, inventions or improvements in the United States or in any foreign country; and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which may be granted in the United States or in any foreign country upon said invention, inventions or improvements, to have and to hold the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

AND we do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said COMPANY, its successors and assigns, as the assignees of the entire right, title and interest in and to the same, for the sole use and benefit of said COMPANY, its successors and assigns.

AND we do hereby covenant and warrant that we have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that we have not executed and will not execute any instruments in conflict herewith.

AND we, for the conditions aforesaid, do hereby covenant and agree to and with the said COMPANY, its successors and assigns, that we, our executors, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute, and deliver any and all other instruments in writing, and any and all further applications, papers, powers, affidavits, assignments, disolaimers and other documents, which in the opinion of counsel for said COMPANY, its successors and assigns, may be required or necessary in this or in any foreign country

PATENT

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more effectually to secure to and vest in said COMPANY, its successors and assigns; the entire right, title and interest in and to said invention, inventions, or improvements, application or applications, patents, rights, titles, benefits, privileges and advantages hereby sold, assigned, confirmed, transferred and conveyed.

The undersigned hereby grants David S. Jacobson, Esq. and David P. Gordon, Esq., the power to insert on this Assignment any further identification which may be necessary in order to comply with the rules of the U.S. Patent and Trademark Office for the recordation of this document.

IN WITNESS WHERBOF, we, Bart Brosens and Kris Van Aken have hercunto set our hands and seals this 16 day of 000 200.

Bart Brosens

Win Van Alcon

BE IT KNOWN, that on this 16 day of hour 2011, personally appeared, Bart Brusens and Krie Van Aken, to me known and known to me to be the individuals described in and who executed the foregoing assignment and they acknowledged to me that they executed the same.

Withou

Print Name: LAUWER\_S LOD

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GORDON & JACOBSON

PAGE PAGE. 4

PAGE 02

TRA-096

### ASSIGNMENT

WHEREAS, we. Bart Brosens and Kris Van Aken, hereinafter referred to as the "Inventors". citizens of Belgium, whose post office addresses are respectively,

- 1) Knobaan 130, B2520 Ociegem, Belgium, and
- 2) Edelzangerslaan 25 #401, B-3010 Kessel-Lo, Belgium,

have invented certain new and useful improvements in

## Sonet/SDH SPE/Virtual Container Retiming With Adaptive Dual Pointer Leak Rate Computation

as described and set forth in an application for Letters Patent of the United States of America, executed by us on the 19th day of August 2004 (Attorney Docket No. TRA-096).

AND WHEREAS, Transwitch Corporation hereinafter referred to as the "said COMPANY", a company existing under the laws of Delaware and having a place of business at 3 Enterprise Drive, Shelton, CT 06484, is desirous of acquiring or confirming its acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in and to any and all patents, both of the United States and of all foreign countries, that may be obtained therefor;

NOW, THEREFORE TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that we, the Inventors, for good and valuable considerations, the receipt and sufficiency of which we hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said COMPANY, its successors and assigns, the entire right, title and interest throughout the world, in and to our invention, inventions or improvements described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation, continuation-in-part, or substitute application which may filed on said invention, inventions or improvements in the United States or in any foreign country; and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which may be granted in the United States or in any foreign country upon said invention, inventions or improvements, to have and to hold the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

AND we do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said COMPANY, its successors and assigns, as the assignces of the entire right, title and interest in and to the same, for the sole use and benefit of said COMPANY, its successors and assigns.

AND we do hereby covenant and warrant that we have full right to convey the entire right, title and interest berein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that we have not executed and will not execute any instruments in conflict herewith.

AND we, for the conditions aforesaid, do hereby covenant and agree to and with the said COMPANY, its successors and essigns, that we, our executors, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute, and deliver any and all other instruments in writing, and any and all further applications, papers, powers. affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said COMPANY, its successors and assigns, may be required or necessary in this or in any foreign country

more effectually to secure to and vest in said COMPANY, its successors and assigns, the entire right, title and interest in and to said invention, inventions, or improvements, application or applications, patents, rights, titles, benefits, privileges and advantages hereby sold, assigned, confirmed, transferred and conveyed.

The undersigned hereby grants David S. Jacobson, Esq. and David P. Gordon, Esq., the power to insert on this Assignment any further identification which may be necessary in order to comply with the rules of the U.S. Patent and Trademark Office for the recordation of this document.

Bart Brosens

Kris Van Aken

Print Name:

AUWERS LEDE

### ASSIGNMENT

WHEREAS, I, Chitra Wadhwa, hereinafter referred to as the "Inventor", a citizen of India, whose post office address is House # 32, Sector 15, Sonepat- 131001, India, have invented certain new and useful improvements in

SONET/SDH SPE/ VIRTUAL CONTAINER RETIMING WITH ADAPTIVE DUAL POINTER LEAK RATE COMPUTATION

as described and set forth in an application for Letters Patent of the United States of America, executed by me on the day of August 20.04. (Attorney Docket No. TRA-096).

AND WHEREAS, TranSwitch Corporation hereinafter referred to as the "said COMPANY", a company existing under the laws of Delaware and having a place of business at 3 Enterprise Drive, Shelton, CT 06484, is desirous of acquiring or confirming its acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in and to any and all patents, both of the United States of all foreign countries, that may be obtained therefor,

NOW, THEREFORE TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that I, the Inventors, for good and valuable considerations, the receipt and sufficiency of which I hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said COMPANY, its successors and assigns, the entire right, title and interest throughout the world, in and to our invention, inventions or improvements described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation, continuation-in-part, or substitute application which may be filed on said invention, inventions or improvements in the United States or in any foreign country, and in and to any and all patents, certificates, utility models, reissues, extentions, additions or confirmations thereof which may be granted in the United States or in any foreign country upon said invention, inventions or improvements, to have and to hold the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

AND I do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said COMPANY, its successors and assigns, as the assignees of the entire right, title and interest in and to the same, for the sole use and benefit of the said COMPANY, its successors and assigns.

AND I do hereby covenant and warrant that I have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that I have not executed and will not execute any instruments in conflict herewith.

AND I, for the conditions aforesaid, do hereby covenant and agree to and with the said COMPANY, its successors and assigns, that I, my executors, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute and deliver any and all other instruments in writing, and any and all further applications, papers, powers, affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said COMPANY, its successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure to and vest in said COMPANY, its successors and assigns, the entire right, with and interest in and to said

Name C.M. Bewele Area New Delhi Regn. No. 592

**PATENT** 

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### TRA-096

invention, inventions, or improvements, application or applications, patents, rights, titles, benefits, privileges and advantages hereby sold, assigned, confirmed, transferred and conveyed.

The undersigned hereby grants David S. Jacobson, Esq. And David P. Gordon, Esq., the power to insert on this assignment any further identification which may be necessary in order to comply with the rules of the U.S. Patent and Trademark Office for the recordation of this document.

IN WITNESS WHEREOF, I Chitra Wadhwa, have hereunto set my hand and seals this -16.45-day of 

Chitra Wadhwa

BE IT KNOWN, that on this \_\_\_\_\_\_day of August 2004, personally appeared, Chitra Wadhwa to me known and known to me to be the individual described in and who executed the foregoing assignment and she acknowledged to me that she executed the same.

SEAL



WITNESS: otary PRINT NAME

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Public

MY COMMISSION EXPIRES ON 15TH MAY 2006

Valla Ou-Side India

### **ASSIGNEMENT**

WHEREAS, I Sachin Mathur, hereinafter referred to as the "Inventor" a Citizen of India whose post office address is #102, Pristine Park Apartments, Geetanjali Layout, HAL 3 stage Bangalore -560075, Karnataka, INDIA, have invented certain new and useful improvements in

# SONET/SDH SPE/VIRTUAL CONTAINER RETIMING WITH ADAPTIVE DUAL POINTER LEAK RATE COMPUTATION

as described and set forth in an application for Letters Patent of the United States of America, executed by me on the 13 day of August 2004 (Attorney Docket No TRA-096)

AND WHEREAS, Transwitch Corporation hereinafter referred to as the "said COMPANY", a company existing under the laws of Delaware and having a place of business at 3 Enterprise Drive, Shelton CT 06484, is desirous of acquiring or confirming its acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in and to any and all patents, both of the united states and of all foreign countries, that maybe obtained therefore,

Now, THEREFORE TO ALL WHOM IT MAY CONCERN, BE IT KNOWN that I, the inventors, for good and valuable considerations, the receipt and sufficiency of which I hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell ,assign, transfer and convey to said COMPANY, its successors and assigns, the entire right, title and interest throughout the world, in and to our invention, inventions or improvements described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional , continuation, continuation-in-part, or substitute application which maybe filed on said invention, inventions or improvements in the United States or in foreign country and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which maybe granted in the United States or in any foreign country upon said invention, inventions or improvements, to have and to hold the same to the full end of the term or terms for which any and all such United States and foreign patents and grants maybe issued on said invention, inventions, or improvements.

AND I do hereby authorize and request the issuing authority to issue any and all of the said United States and foreign Patents on said application or applications to said COMPANY, its successors and assigns as the assignees of the entire right, title and interest in and to the same, for the sole use and benefit of the said COMPANY, its successors and assigns.

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AND I do hereby covenant and warrant that I have full right to convey the entire right ,title and interest herein assigned free and clear of all licenses, encumbrances and hence whatsoever, and that I have not executed and will not execute any instruments in conflict herewith.

AND I, for the conditions aforesaid, do hereby covenant and agree to and with the said COMPANY, its successors and assigns, that I, my executers, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute and deliver any and all other instruments in writing ,and any and all further applications, papers, powers, affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said COMPANY, its successors and assigns, maybe required or necessary in this or in any foreign country more effectually to secure to and vest in said COMPANY, its successors and assigns, the entire right, title and interest in and to said invention, inventions, or improvements, application or applications, patents, rights, titles, benefits, privileges and advantages hereby sold, assigned, confirmed, transferred and conveyed.

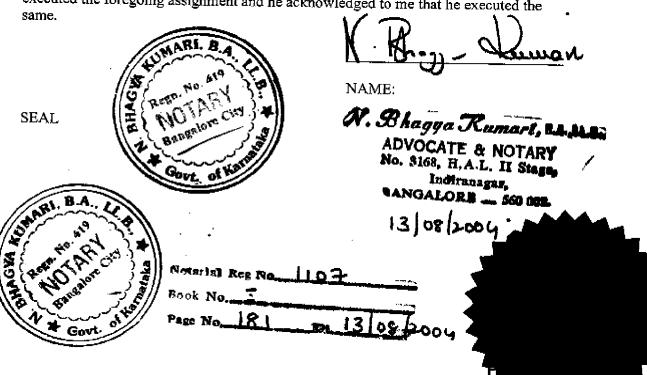
The undersigned hereby grants David S. Jacobson, Esq and David P Gordon, ESQ., the power to insert on this Assignment any further identification which maybe necessary in order to comply with the rules of the Patent and Trademark Office for the recordation of this document.

IN WITNESS WHEREOF, I Sachin Mathur have hereunto set my hand and seals this [ ] day of Aust, 20 04.

Sachin Mathur

REEL: 01991

BE IT KNOWN, that on this 13 day of August 2004, personally appeared, Sachin Mathur to me known and known to me to be the individual described in and who executed the foregoing assignment and he acknowledged to me that he executed the



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PAGE 15 PAGE. 6

PAGE 06

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GORDON & JACOBSON

TRA-096

### ASSIGNMENT

WHEREAS, I, Ramses Valvelrens, hereinafter referred to as the "Inventor" a citizen of Belguim whose post office address is Brusselsesteenweg 6 #15, B-3020 Herent, Belgium have invented certain new and useful improvements in

Sonet/SDH SPE/Virtual Container Retiming With Adaptive Dual Pointer Leak Rate Computation

as described and set forth in an application for Letters Patent of the United States of America, executed by me on the 23th day of August 2004. (Attorney Docket No. TRA-096)

AND WHEREAS, (Transwitch Corporation) hereinafter referred to as the "said COMPANY", a company existing under the laws of the state of Delaware and having a place of business at 3 Enterprise Drive, Shelton, CT 06484, is desirous of acquiring or confirming its acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in and to any and all patents, both of the United States and of all foreign countries, that may be obtained therefor;

NOW, THEREFORE TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that I, the Inventor, for good and valuable considerations, the receipt and sufficiency of which I hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said COMPANY, its successors and assigns, the entire right, title and interest throughout the world, in and to my invention, inventions or improvements described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign. applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation, continuation-in-part, or substitute application which may filed on said invention, inventions or improvements in the United States or in any foreign country; and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which may be granted in the United States or in any foreign country upon said invention, inventions or improvements, to have and to hold the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

AND I do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said COMPANY, its successors and assigns, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said COMPANY, it successors and assigns.

AND I do hereby covenant and werrant that I have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that I have not executed and will not execute any instruments in conflict herewith.

AND I, for the conditions aforesaid, do hereby covenant and agree to and with the said COMPANY, its successors and assigns, that I, my executors, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute, and deliver any and all other instruments in writing, and any and all further applications, papers, powers, affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said COMPANY, its successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure to and vest in said COMPANY, its successors and assigns, the entire right, title and interest in and to said invention, inventions, or improvements,

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+32 16 395619 GORDON & JACOBSON

PAGE

TRA-096

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application or applications, patents, rights, titles, benefits, privileges and advantages hereby sold, assigned, confirmed, transferred and conveyed.

The undersigned hereby grant(s) David P. Gordon, Esq., David S. Jacobson, Esq., and Jay P. Sbrollini, Esq. the power to insert on this Assignment any further identification which may be necessary in order to comply with the rules of the U.S. Patent and Trademark Office for the recordation of this document.

IN WITNESS WHEREOF, I, Ramses Valvekens, have hereunto set my hand and seal this

Ramses Valvekens

County of

State of

BE IT KNOWN, that on this 23 day of Ramses Valvekens to me known and known to me to be the individual described in and who executed the foregoing assignment and he acknowledged to me that he executed the same.

SEAL

My commission expires: