

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Joseph Lawrence</td> <td>08/13/2007</td> </tr> <tr> <td>Nassar El-Aawar</td> <td>08/09/2007</td> </tr> <tr> <td>Darren Loher</td> <td>10/19/2007</td> </tr> <tr> <td>Steven Craig White</td> <td>12/12/2007</td> </tr> <tr> <td>Raoul Alcala</td> <td>08/17/2007</td> </tr> <tr> <td>Niclas Comstedt</td> <td>08/10/2007</td> </tr> </tbody> </table>		Name	Execution Date	Joseph Lawrence	08/13/2007	Nassar El-Aawar	08/09/2007	Darren Loher	10/19/2007	Steven Craig White	12/12/2007	Raoul Alcala	08/17/2007	Niclas Comstedt	08/10/2007
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Niclas Comstedt	08/10/2007														
RECEIVING PARTY DATA															
Name:	Level 3 Communications, LLC														
Street Address:	1025 Eldorado Boulevard														
City:	Broomfield														
State/Country:	COLORADO														
Postal Code:	80021														
PROPERTY NUMBERS Total: 1															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11565563</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11565563										
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CORRESPONDENCE DATA															
Fax Number:	(720)377-0779														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	720-377-0770														
Email:	smcpeak@hkh-law.com														
Correspondent Name:	Damon A. Rieth														
Address Line 1:	1660 Lincoln Street, Suite 3000														
Address Line 2:	Hensley Kim & Holzer, LLC														
Address Line 4:	Denver, COLORADO 80264														
ATTORNEY DOCKET NUMBER:	519-055-CIP														

OP \$40.00 11565563

NAME OF SUBMITTER:

Damon A. Rieth

Total Attachments: 11

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ASSIGNMENT

WHEREAS, I/we, Joseph Lawrence, residing at 2989 Tin Cup, Boulder, CO 80305; Nassar El-Aawar, residing at 1 466 South Downing , Denver, CO 80209; Darren Loher, 6554 Orion Court, Arvada, CO 80007; Steven Craig White, 3711 Florentine Drive, Longmont, CO 80503; Raoul Alcala, 986 Monroe Way, Superior, CO 80027; and Niclas Comstedt, 14000 Winding River Court, Unit R2, Broomfield, CO 80020; (hereinafter, individually and collectively the "Assignor"), have invented a certain new and useful invention entitled "**SYSTEMS AND METHODS FOR NETWORK ROUTING IN A MULTIPLE BACKBONE NETWORK ARCHITECTURE**" for which an application for Letters Patent of the United States have been prepared and filed on November 30, 2006 receiving Application No. 11/565,563, and further identified as Attorney Docket No. 519-055-CIP;

NOW THEREFORE, for good and valuable consideration, receipt of which is acknowledged, Assignor has agreed to assign and transfer and do hereby assign and transfer unto **Level 3 Communications, LLC** ("Company"), a corporation organized and existing under the laws of the State of Delaware, having its principal office at 1025 Eldorado Boulevard, Broomfield, Colorado 80021, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any divisional or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by Assignor (provided any such improvement is made during, or within one year after the termination, of the employment by said Company of Assignor), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries, foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

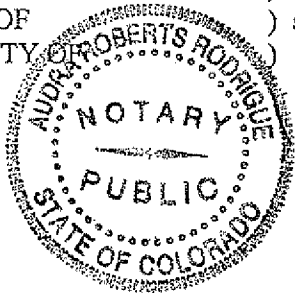
Assignor further agrees for Assignor and for Assignor's heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as Assignor lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its

right, title, and interest as aforesaid to obtain to maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And Assignor hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to said Company, as the assignee of the entire right, title, and interest therein.

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

STATE OF COLORADO)
CITY OF) ss.
COUNTY OF)



By: [Signature]
Joseph Lawrence
Dated: 8/13/07

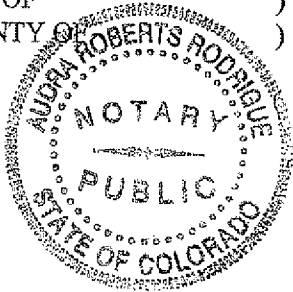
Before me, a Notary Public in and for said County and State, personally appeared Joseph Lawrence, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 13th day of August, 2007.

[Signature]
Notary Public

My Commission Expires: March 14 2010

STATE OF COLORADO)
CITY OF) ss.
COUNTY OF)



By: *Nassar El-Aawar*
Nassar El-Aawar

Dated: 8/9/07

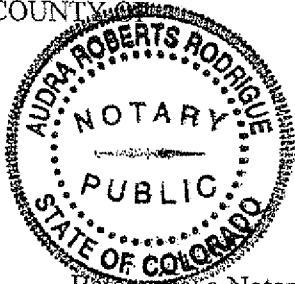
Before me, a Notary Public in and for said County and State, personally appeared Nassar El-Aawar, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 9th day of August, 2007.

Audra Roberts Rodrigue
Notary Public

My Commission Expires: March 14, 2010

STATE OF COLORADO)
CITY OF) ss.
COUNTY OF)



By: _____
Darren Loher

Dated: _____

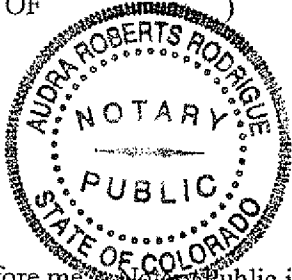
Before me, a Notary Public in and for said County and State, personally appeared Darren Loher, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this ____ day of _____, 2007.

Notary Public

My Commission Expires: _____

STATE OF COLORADO)
CITY OF) ss.
COUNTY OF)



By: _____
Steven Craig White

Dated: _____

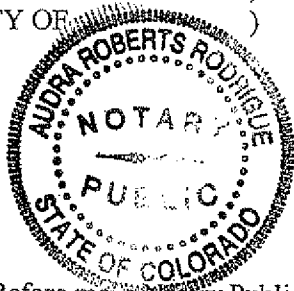
Before me, Notary Public in and for said County and State, personally appeared Steven Craig White, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this ____ day of _____, 2007.

Notary Public

My Commission Expires: _____

STATE OF COLORADO)
CITY OF) ss.
COUNTY OF)



By: *Raoul Alcala*
Raoul Alcala

Dated: 2007/8/17

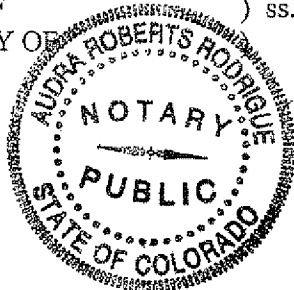
Before me, a Notary Public in and for said County and State, personally appeared Raoul Alcala, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 17th day of _____, 2007.

Audra Roberts Rodrigue
Notary Public

My Commission Expires: March 14, 2010

STATE OF COLORADO)
CITY OF) ss.
COUNTY OF



By: Niclas Comstedt
Niclas Comstedt

Dated: 8/10/07

Before me, a Notary Public in and for said County and State, personally appeared Niclas Comstedt, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 10th day of August, 2007.

Audra Roberts Rodriguez
Notary Public

My Commission Expires: March 14, 2010

RECEIVED
OCT 22 2007

BY:.....

ASSIGNMENT


WHEREAS, I/we, Joseph Lawrence, residing at 2989 Tin Cup, Boulder, CO 80305; Nassar El-Aawar, residing at 1 466 South Downing , Denver, CO 80209; Darren Loher, 6554 Orion Court, Arvada, CO 80007; Steven Craig White, 3711 Florentine Drive, Longmont, CO 80503; Raoul Alcala, 986 Monroe Way, Superior, CO 80027; and Niclas Comstedt, 14000 Winding River Court, Unit R2, Broomfield, CO 80020; (hereinafter, individually and collectively the "Assignor"), have invented a certain new and useful invention entitled "**SYSTEMS AND METHODS FOR NETWORK ROUTING IN A MULTIPLE BACKBONE NETWORK ARCHITECTURE**" for which an application for Letters Patent of the United States have been prepared and filed on November 30, 2006 receiving Application No. 11/565,563, and further identified as Attorney Docket No. 519-055-CIP;

NOW THEREFORE, for good and valuable consideration, receipt of which is acknowledged, Assignor has agreed to assign and transfer and do hereby assign and transfer unto **Level 3 Communications, LLC** ("Company"), a limited liability company organized and existing under the laws of the State of Delaware, having its principal office at 1025 Eldorado Boulevard, Broomfield, Colorado 80021, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any divisional or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by Assignor (provided any such improvement is made during, or within one year after the termination, of the employment by said Company of Assignor), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries, foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

Assignor further agrees for Assignor and for Assignor's heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as Assignor lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its

right, title, and interest as aforesaid to obtain to maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And Assignor hereby authorizes and requests the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to said Company, as the assignee of the entire right, title, and interest therein.



Darren Loher

Dated: 10-19-2007

ASSIGNMENT

WHEREAS, I/we, Joseph Lawrence, residing at 2989 Tin Cup, Boulder, CO 80305; Nassar El-Aawar, residing at 1 466 South Downing , Denver, CO 80209; Darren Loher, 6554 Orion Court, Arvada, CO 80007; Steven Craig White, Flat 1, 11 Kingscroft Road, London, NW2 3QE, UK; Raoul Alcalá, 986 Monroe Way, Superior, CO 80027; and Niclas Comstedt, 14000 Winding River Court, Unit R2, Broomfield, CO 80020; (hereinafter, individually and collectively the "Assignor"), have invented a certain new and useful invention entitled "**SYSTEMS AND METHODS FOR NETWORK ROUTING IN A MULTIPLE BACKBONE NETWORK ARCHITECTURE**" for which an application for Letters Patent of the United States have been prepared and filed on November 30, 2006 receiving Application No. 11/565,563, and further identified as Attorney Docket No. 519-055-CIP;

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And Assignor hereby authorizes and requests the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to said Company, as the assignee of the entire right, title, and interest therein.



Steven Craig White

Dated: 12-Dec-2007