

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	MERGER										
EFFECTIVE DATE:	01/03/2006										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>BBNT SOLUTIONS LLC</td> <td>11/22/2005</td> </tr> </tbody> </table>		Name	Execution Date	BBNT SOLUTIONS LLC	11/22/2005						
Name	Execution Date										
BBNT SOLUTIONS LLC	11/22/2005										
RECEIVING PARTY DATA											
Name:	BBN TECHNOLOGIES CORP.										
Street Address:	10 MOULTON STREET										
City:	CAMBRIDGE										
State/Country:	MASSACHUSETTS										
Postal Code:	02138										
PROPERTY NUMBERS Total: 4											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Patent Number:</td> <td>7623897</td> </tr> <tr> <td>Patent Number:</td> <td>7979096</td> </tr> <tr> <td>Patent Number:</td> <td>7979098</td> </tr> <tr> <td>Application Number:</td> <td>12537085</td> </tr> </tbody> </table>		Property Type	Number	Patent Number:	7623897	Patent Number:	7979096	Patent Number:	7979098	Application Number:	12537085
Property Type	Number										
Patent Number:	7623897										
Patent Number:	7979096										
Patent Number:	7979098										
Application Number:	12537085										
CORRESPONDENCE DATA											
Fax Number:											
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	4092832811										
Email:	tom@tflawoffices.com										
Correspondent Name:	Thomas D. Fortenberry										
Address Line 1:	P.O. Box 2099										
Address Line 4:	Woodville, TEXAS 75979										
ATTORNEY DOCKET NUMBER:	SVIPGP051/52										
NAME OF SUBMITTER:	Thomas D. Fortenberry										

CH \$160.00 7623897

Signature:	/Thomas D. Fortenberry/
Date:	08/14/2013
Total Attachments: 7 source=PL11_BBN_to_BBNT_Merger#page1.tif source=PL11_BBN_to_BBNT_Merger#page2.tif source=PL11_BBN_to_BBNT_Merger#page3.tif source=PL11_BBN_to_BBNT_Merger#page4.tif source=PL11_BBN_to_BBNT_Merger#page5.tif source=PL11_BBN_to_BBNT_Merger#page6.tif source=PL11_BBN_to_BBNT_Merger#page7.tif	

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EXHIBIT A

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Delaware

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The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

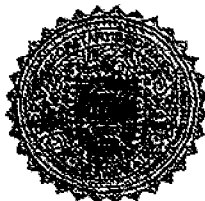
"BENT SOLUTIONS LLC", A DELAWARE LIMITED LIABILITY COMPANY, WITH AND INTO "BBN TECHNOLOGIES OPERATING CORP." UNDER THE NAME OF "BBN TECHNOLOGIES OPERATING CORP.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE SECOND DAY OF DECEMBER, A.D. 2005, AT 3:58 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF MERGER IS THE THIRD DAY OF JANUARY, A.D. 2006, AT 12:01 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

3760012 8100M

050981779



Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 4344737

DATE: 12-06-05

PATENT
REEL: 031014 FRAME: 0601

DEC 5 2005 4:26PM LANIER2

NO 3846 P 2

State of Delaware
 Secretary of State
 Division of Corporations
 Delivered 04:05 PM 12/02/2005
 FILED 03:58 PM 12/02/2005
 SVY 050981779 - 3760012 FILE

CERTIFICATE OF MERGER

of

BBNT SOLUTIONS LLC,
 a Delaware limited liability company

with and into

BBN TECHNOLOGIES OPERATING CORP.,
 a Delaware corporation

Pursuant to Title 8, Section 264(c) of the Delaware General Corporation Law (the "DGCL") and Title 6, Section 18-209 of the Delaware Limited Liability Company Act (the "LLC Act"), BBN Technologies Operating Corp., a Delaware corporation (the "Surviving Corporation"), hereby certifies to the following information regarding the merger of BBNT Solutions LLC, a Delaware limited liability company (the "Merging LLC"), into the Surviving Corporation (the "Merger"):

FIRST: The names and states of incorporation or formation, as applicable, of the Surviving Corporation and the Merging LLC, which are the constituent entities in the Merger (the "Constituent Entities"), are as follows:

<u>Name</u>	<u>State</u>
BBN Technologies Operating Corp.	Delaware
BBNT Solutions LLC	Delaware

SECOND: The Agreement and Plan of Merger dated as of November 22, 2005 (the "Merger Agreement") between the Surviving Corporation and the Merging LLC, setting forth the terms and conditions of the Merger, has been approved, adopted, certified, executed and acknowledged by each of the Constituent Entities in accordance with Title 8, Section 264(c) and Section 103 of the DGCL and Title 6, Section 18-209 of the LLC Act.

THIRD: The name of the corporation surviving the Merger is "BBN Technologies Operating Corp.", a Delaware corporation.

FOURTH: The Certificate of Incorporation of the Surviving Corporation in effect immediately before the effectiveness of the Merger shall be the Certificate of Incorporation of the Surviving Corporation until further amended in accordance with the DGCL.

FIFTH: The executed Merger Agreement is on file at the principal place of business of the Surviving Corporation. The address of the principal place of business of the Surviving Corporation is: 10 Moulton Street, Cambridge, MA 02138.

DEC 5 2005 4:27PM - LANIER2

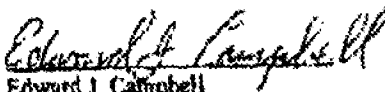
NO 3846 P 3

SIXTH: A copy of the Merger Agreement will be furnished by the Surviving Corporation, on request and without cost, to any stockholder or member, as applicable, of the Constituent Entities.

SEVENTH: The Merger and this Certificate of Merger shall be effective at 12:01 a.m. E.S.T on January 3, 2006, in accordance with the DCCL and the LLC Act.

IN WITNESS WHEREOF, the Surviving Corporation has caused this certificate to be signed by the undersigned on November 22, 2005.

BDN TECHNOLOGIES OPERATING CORP

By: 
Name: Edward J. Campbell
Title: Executive Vice President, Operations

Delaware

PAGE 1

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "BBN TECHNOLOGIES OPERATING CORP.", CHANGING ITS NAME FROM "BBN TECHNOLOGIES OPERATING CORP." TO "BBN TECHNOLOGIES CORP.", FILED IN THIS OFFICE ON THE SECOND DAY OF DECEMBER, A.D. 2005, AT 4:05 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRD DAY OF JANUARY, A.D. 2006, AT 12:01 O'CLOCK A.M.

3760012 8100
050981786



Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State
AUTHENTICATION: 4344742

DATE: 12-06-05

PATENT
REEL: 031014 FRAME: 0604

State of Delaware
 Secretary of State
 Division of Corporations
 Delivered 04:05 PM 12/02/2005
 FILED 04:05 PM 12/02/2005
 SRV 050981786 - 3760012 FILE

**CERTIFICATE OF AMENDMENT
 OF
 CERTIFICATE OF INCORPORATION
 OF
 BBN TECHNOLOGIES OPERATING CORP.**

BBN Technologies Operating Corp. (the "Corporation"), a corporation organized in the State of Delaware on February 3, 2004, for the purpose of amending its Certificate of Incorporation in accordance with Section 242 of the General Corporation Law of the State of Delaware, hereby certifies:

FIRST: That pursuant to the authority conferred by the Certificate of Incorporation and By-laws of the Corporation, the Board of Directors duly adopted a resolution setting forth a proposed amendment to the Certificate of Incorporation of the Corporation.

SECOND: Upon the effectiveness hereof, Article 1 of the Certificate of Incorporation shall be amended by striking out Article First in its entirety and by substituting in lieu of said Article 1 the following new Article 1:

"FIRST: The name of the corporation formed hereby is BBN Technologies Corp."

THIRD: The amendment of the Certificate of Incorporation herein certified has been duly adopted and written consent has been given in accordance with the provisions of Sections 228 and 242 of the General Corporation Law of the State of Delaware.

FOURTH: This Certificate of Amendment shall be effective at 12:01 a.m. E.S.T. on January 3, 2006, in accordance with the DGCL.

IN WITNESS WHEREOF, the Corporation has caused this Certificate of Amendment to be signed by its Executive Vice President, Operations on December 1, 2005.


 Edward J. Campbell
 Executive Vice President, Operations

Received Cert of Amend of Cert of Incorpor of BBN Technologies Operating Corp. 12/1/05