

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Jose Rodriguez-Sanchez</td> <td>03/27/2002</td> </tr> <tr> <td>Derek Hilborn</td> <td>03/27/2002</td> </tr> <tr> <td>Eamonn Gormley</td> <td>03/27/2002</td> </tr> </tbody> </table>		Name	Execution Date	Jose Rodriguez-Sanchez	03/27/2002	Derek Hilborn	03/27/2002	Eamonn Gormley	03/27/2002		
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Jose Rodriguez-Sanchez	03/27/2002										
Derek Hilborn	03/27/2002										
Eamonn Gormley	03/27/2002										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>AT&amp;T Wireless Services, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>7277 164th Avenue NE</td> </tr> <tr> <td>City:</td> <td>Redmond</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>98052</td> </tr> </table>		Name:	AT&T Wireless Services, Inc.	Street Address:	7277 164th Avenue NE	City:	Redmond	State/Country:	WASHINGTON	Postal Code:	98052
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City:	Redmond										
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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>13859449</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13859449						
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CORRESPONDENCE DATA											
Fax Number: 2166968731 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 404-927-2780 Email: epas@thepatentattorneys.com Correspondent Name: AT&T Legal Department - T&W Attn: Paten Address Line 1: Room 2A-207 Address Line 2: One AT&T Way Address Line 4: Bedminster, NEW JERSEY 07921											
ATTORNEY DOCKET NUMBER:	2001-0185CON4/ATTWP426USD										
NAME OF SUBMITTER:	Thomas E. Watson										
Signature:	/Thomas E. Watson/										

Date:

04/09/2013

**Total Attachments: 21**

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## ASSIGNMENT AND AGREEMENT

For value received, we, Joseph Rodriguez-Sanchez, of Seattle in the County of King and State of Washington, Derek Hilborn, of Kirkland in the County of King and State of Washington, and Eamonn Gormley, of Seattle in the County of King and State of Washington, hereby sell, assign and transfer to AT&T Wireless Services, Inc., a corporation of the State of Delaware, having an office at 7277 164<sup>th</sup> Avenue NE, Redmond, Washington 98052, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **A REAL-TIME CONTROL MECHANISM FOR MULTI-RATE DATA TRANSMISSION IN WIRELESS NETWORKS**, described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to AT&T Wireless Services, Inc., the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize AT&T Wireless Services, Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of AT&T Wireless Services, Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to AT&T Wireless Services, Inc. in the United States and in all countries foreign to the United States, or to such nominees as AT&T Wireless Services, Inc. may designate.

DOCKET NO. 12177/23501  
AWS NO. STG 235

We agree that, when requested, we shall, without charge to AT&T Wireless Services, Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

  
Jose Rodriguez-Sanchez

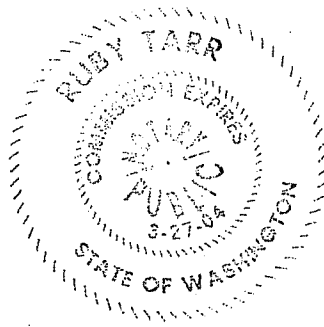
Date: 03/27/02

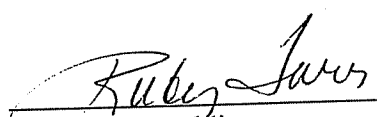
United States of America )


State of Washington )ss:

County of KING )

On this 27<sup>th</sup> day of March, 2002, before me personally came Jose Rodriguez-Sanchez to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



  
Notary Public

  
Derek Hilborn

Date: 3/27/2002

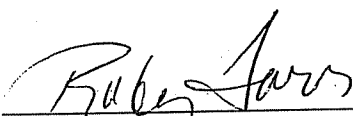
United States of America )

State of Washington )ss:

County of KING )

On this 27<sup>th</sup> day of March, 2002  
\_\_\_\_\_, before me personally came Derek Hilborn to me known to be the individual described in and  
who executed the foregoing instrument, and acknowledged execution of the same.



  
Notary Public

Eamonn Gormley  
Eamonn Gormley

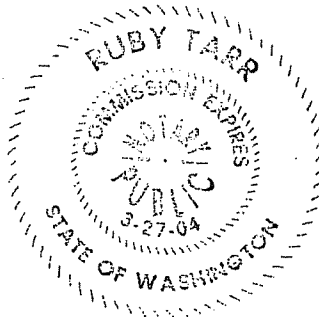
Date: 03/27/02

United States of America )

State of Washington )ss:

County of KING )

On this 27<sup>th</sup> day of March, 20 02, before me personally came Eamonn Gormley to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Ruby Tarr  
Notary Public

# 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 "AT&T MOBILITY II, LLC", CHANGING ITS NAME FROM "AT&T MOBILITY II, LLC" TO "AT&T MOBILITY II LLC", FILED IN THIS OFFICE ON THE TWENTY-THIRD DAY OF AUGUST, A.D. 2007, AT 5:12 O'CLOCK P.M.



3858251 8100

070952720

*Harriet Smith Windsor*

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 5966883

DATE: 08-30-07

PATENT  
REEL: 030181 FRAME: 0068

STATE OF DELAWARE  
CERTIFICATE OF AMENDMENT TO AMENDED CERTIFICATE OF FORMATION  
OF  
AT&T MOBILITY II, LLC

- 1 Name of Limited Liability Company: AT&T Mobility II, LLC
- 2 The Certificate of Formation of the limited liability company is hereby amended as follows: The name of the limited liability company is: AT&T Mobility II LLC.

IN WITNESS WHEREOF, the undersigned has executed this Certificate on the 23rd  
day of August, A D 2007

By: Carolyn J. Wilder  
Authorized Person

Name: Carolyn J. Wilder  
Assistant Secretary



# 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 "CINGULAR WIRELESS II, LLC", CHANGING ITS NAME FROM "CINGULAR WIRELESS II, LLC" TO "AT&T MOBILITY II, LLC", FILED IN THIS OFFICE ON THE TWENTIETH DAY OF APRIL, A.D. 2007, AT 3:13 O'CLOCK P.M.



3858251 8100

070460637

*Harriet Smith Windsor*

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 5611970

DATE: 04-20-07

PATENT  
REEL: 030181 FRAME: 0070

State of Delaware  
Secretary of State  
Division of Corporations  
Delivered 03:14 PM 04/20/2007  
FILED 03:13 PM 04/20/2007  
SRV 070460637 - 3858251 FILE

STATE OF DELAWARE  
CERTIFICATE OF AMENDMENT TO CERTIFICATE OF FORMATION  
OF  
CINGULAR WIRELESS II, LLC

1. Name of Limited Liability Company: Cingular Wireless II, LLC
2. The Certificate of Formation of the limited liability company is hereby amended as follows: The name of the limited liability company is: AT&T Mobility II, LLC.

IN WITNESS WHEREOF, the undersigned has executed this Certificate on the 20<sup>th</sup>  
day of April, A D 2007

By: Carolyn J. Wilder  
Authorized Person

Name: Carolyn J. Wilder  
Assistant Secretary

## Supporting Documentation Showing Evidence of Chain of Title for Patent Applications

The following documents represent evidence of the chain of title of all AT&T Wireless application to Cingular Wireless II, LLC.

- 1) **New Cingular Wireless Services, Inc. Secretary Certificate** signed by Caroline Wilder, Assistant Secretary. This document certifies the following:
  - a) Agreement and Plan of Merger was entered into by AT&T Wireless Services, Inc. (ATTW), Cingular Wireless Corporation, Cingular Wireless, LLC and Links I Corporation whereby ATTW would be merged in to Links I. Whereby ATTW would be the survivor of the merger.
  - b) A true and correct copy of the Certificate of merger filed with the Delaware Secretary of State is attached and remains in effect.
  - c) As a result of the merger, ATTW becomes a wholly owned subsidiary of Cingular Wireless, LLC.
  - d) The name of ATTW was changed to New Cingular Wireless Services, Inc. on 10/24/2004.
  - e) A true and correct copy of the name change of ATTW is attached and remains in effect.
- 2) A true and correct copy of the Certificate of Merger filed with the Delaware Secretary of State.
- 3) A true and correct copy of the name change of ATTW.
- 4) A true and correct copy of the Certificate of Conversion showing change of status of CWII, Inc to CWII, LLC.

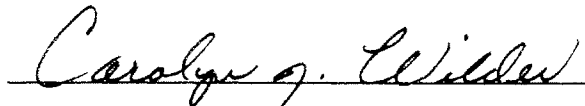
**NEW CINGULAR WIRELESS SERVICES, INC.**

**SECRETARY'S CERTIFICATE**

I, Carolyn J. Wilder, do hereby certify that I am a duly elected, qualified and acting Assistant Secretary of New Cingular Wireless Services, Inc., a Delaware corporation, and as such I am authorized to execute this certificate. In such capacity, I further certify that:

1. An Agreement and Plan of Merger (the "Agreement") dated as of February 17, 2004 was entered into by and among AT&T Wireless Services, Inc., Cingular Wireless Corporation, Cingular Wireless LLC and Links I Corporation, a wholly-owned subsidiary of Cingular whereby AT&T Wireless Services, Inc. would be merged into Links I Corporation upon the terms and conditions of the Agreement, and AT&T Wireless Services, Inc. would be the survivor of the merger.
2. The merger of AT&T Wireless Services, Inc. into Links I Corporation was consummated on October 26, 2004.
3. The attached Exhibit "A" is a true and correct copy of the Certificate of Merger filed with the Delaware Secretary of State and that said Certificate of Merger remains in full force and effect on the date hereof.
4. As a result of the consummation of the merger, AT&T Wireless Services, Inc. became a wholly-owned subsidiary of Cingular Wireless LLC.
5. The name of AT&T Wireless Services, Inc. was changed to New Cingular Wireless Services, Inc. on October 26, 2004.
6. The attached Exhibit "B" is a true and correct copy of the Certificate of Amendment to The Certificate of Incorporation of AT&T Wireless Services, Inc. changing the name of the corporation to New Cingular Wireless Services, Inc. as filed with the Delaware Secretary of State and that said Certificate of Amendment to The Certificate of Incorporation remains in full force and effect on the date hereof.

**IN WITNESS WHEREOF**, I have subscribed my name as Assistant Secretary of the Company this 11<sup>th</sup> day of May, 2005.



Carolyn J. Wilder, Assistant Secretary

# Delaware

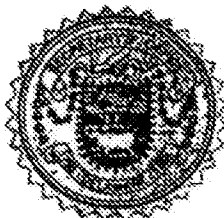
PAGE 1

*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 MERGER, WHICH MERGES:

"LINKS I CORPORATION", A DELAWARE CORPORATION,  
WITH AND INTO "AT&T WIRELESS SERVICES, INC." UNDER THE NAME OF "AT&T WIRELESS SERVICES, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-SIXTH DAY OF OCTOBER, A.D. 2004, AT 10:11 O'CLOCK A.M.

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



2131363 8100M

040725208

*Harriet Smith Windsor*  
Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3434252

DATE: 10-26-04

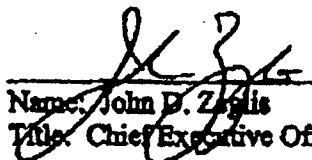
PATENT

REEL: 030181 FRAME: 0074

**SEVENTH:** This certificate of merger shall be effective upon its filing with the Secretary of State of the State of Delaware.

**IN WITNESS WHEREOF,** this Certificate of Merger has been executed by the undersigned, a duly authorized officer of the Surviving Corporation, on behalf of the Surviving Corporation as of the 24th day of October, 2004.

**AT&T WIRELESS SERVICES, INC.**

By:   
Name: John D. Ziegler  
Title: Chief Executive Officer

SEVENTH. Any action required or permitted to be taken by the holders of Common Stock of the corporation, including but not limited to the election of directors, may be taken by written consent or consents but only if such consent or consents are signed by all holders of Common Stock.

EIGHTH. A director of the corporation shall not be liable to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, except to the extent that such exemption from liability or limitation thereof is not permitted under the Delaware General Corporation Law as currently in effect or as the same may hereafter be amended. No amendment, modification or repeal of this Article EIGHTH shall adversely affect any right or protection of a director that exists at the time of such amendment, modification or repeal.

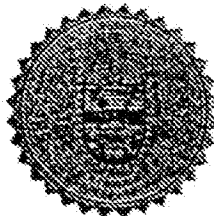
# Delaware

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 "AT&T WIRELESS SERVICES, INC.", CHANGING ITS NAME FROM "AT&T WIRELESS SERVICES, INC." TO "NEW CINGULAR WIRELESS SERVICES, INC.", FILED IN THIS OFFICE ON THE TWENTY-SIXTH DAY OF OCTOBER, A.D. 2004, AT 11:01 O'CLOCK A.M.

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



2131363 8100

040770545

*Harriet Smith Windsor*

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3434831

DATE: 10-26-04

PATENT  
REEL: 030181 FRAME: 0077



State of Delaware  
Secretary of State  
Division of Corporations  
Delivered 11:23 AM 10/26/2004  
FILED 11:01 AM 10/26/2004  
SRV 040770545 - 2131363 FILE

**CERTIFICATE OF AMENDMENT  
TO THE  
CERTIFICATE OF INCORPORATION  
OF  
AT&T WIRELESS SERVICES, INC.**

AT&T Wireless Services, Inc., a corporation organized and existing under and by virtue of the Delaware General Corporation Law (the "Corporation"), does hereby certify:

FIRST: That on October 26, 2004, the Board of Directors of the Corporation adopted resolutions setting forth a proposed amendment to the Certificate of Incorporation of the Corporation, declaring said amendment to be advisable and submitting the proposed amendment to the sole stockholder of the Corporation for its consideration and approval. The proposed amendment is as follows:

NOW, THEREFORE, BE IT RESOLVED, that the Certificate of Incorporation of the Corporation be amended by deleting the first paragraph in its entirety and replacing it with a new first paragraph to read as follows:

"FIRST. The name of the corporation is New Cingular Wireless Services, Inc."

SECOND: That thereafter on October 26, 2004, said amendment was duly adopted by written consent of the sole stockholder of the Corporation in accordance with the provisions of Sections 228 and 242 of the Delaware General Corporation Law.

*[Signature on following page]*

IN WITNESS WHEREOF, AT&T Wireless Services, Inc. has caused this Certificate of Amendment to be signed by a duly authorized officer this 26<sup>th</sup> day of October, 2004.

AT&T WIRELESS SERVICES, INC.

By: Carolyn J. Wilder  
Name: Carolyn J. Wilder  
Title: Assistant Secretary

# Delaware

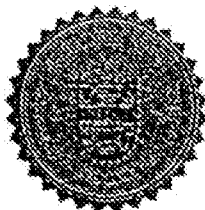
PAGE 1

*The First State*

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A DELAWARE CORPORATION UNDER THE NAME OF "CINGULAR WIRELESS II, INC." TO A DELAWARE LIMITED LIABILITY COMPANY, CHANGING ITS NAME FROM "CINGULAR WIRELESS II, INC." TO "CINGULAR WIRELESS II, LLC", FILED IN THIS OFFICE ON THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2004, AT 10:27 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF CONVERSION IS THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2004, AT 8:45 O'CLOCK P.M.

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



3858251 8100V

040774599

*Harriet Smith Windsor*

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3437873

DATE: 10-27-04

PATENT  
REEL: 030181 FRAME: 0080

State of Delaware  
Secretary of State  
Division of Corporations  
Delivered 10:47 AM 10/27/2004  
FILED 10:27 AM 10/27/2004  
SRV 040774599 - 3858251 FILE

**CERTIFICATE OF CONVERSION OF  
CINGULAR WIRELESS II, INC.  
TO BECOME A LIMITED LIABILITY COMPANY**

Pursuant to the provisions of Section 266 of the Delaware General Corporation Law and Section 18-214 of the Delaware Limited Liability Company Act, Cingular Wireless II, Inc., a Delaware corporation (the "Corporation"), submits the following Certificate of Conversion:

1. The name of the Corporation is Cingular Wireless II, Inc.
2. The date on which the Corporation's original Certificate of Incorporation was filed with the Secretary of State is September 22, 2004.
3. The name of the limited liability company into which the Corporation is being converted is Cingular Wireless II, LLC.
4. The conversion has been approved by written consent of the sole stockholder of the Corporation pursuant to Section 228 of the Delaware General Corporation Law in accordance with the provisions of Section 266 of the Delaware General Corporation Law.
5. The conversion shall be effective at 8:45 p.m. EDT on October 27, 2004.

*[Signature on following page]*

IN WITNESS WHEREOF, Cingular Wireless II, Inc. has caused this Certificate of Conversion to be executed by a duly authorized officer this 27<sup>th</sup> day of October, 2004.

CINGULAR WIRELESS II, INC.

By: Carolyn J. Wilder  
Name: Carolyn J. Wilder  
Title: Assistant Secretary

# Delaware

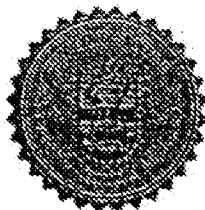
PAGE 2

*The First State*

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF FORMATION OF "CINGULAR WIRELESS II, LLC" FILED IN THIS OFFICE ON THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2004, AT 10:27 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF FORMATION IS THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2004, AT 8:45 O'CLOCK P.M.

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



3858251 8100V

040774599

*Harriet Smith Windsor*

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3437873

DATE: 10-27-04

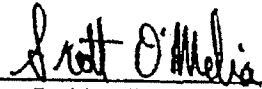
PATENT  
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State of Delaware  
Secretary of State  
Division of Corporations  
Delivered 10:47 AM 10/27/2004  
FILED 10:27 AM 10/27/2004  
SRV 040774599 - 3858251 FILE

**CERTIFICATE OF FORMATION  
OF  
CINGULAR WIRELESS II, LLC**

1. The name of the limited liability company is Cingular Wireless II, LLC.
2. The address of its registered office in the state of Delaware is Corporation Trust Center, 1209 Orange Street, in the City of Wilmington, County of New Castle. The name of its registered agent at such address is The Corporation Trust Company.
3. This Certificate of Formation shall be effective at 8:45 p.m. EDT on October 27, 2004.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Formation of Cingular Wireless II, LLC this 27<sup>th</sup> day of October, 2004.

  
\_\_\_\_\_  
Scott L. O'Melia  
An Authorized Person

ATL01/11735482v1