

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3693742

|                                                                                                                                                                                                 |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT           |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | MERGER                   |
| <b>EFFECTIVE DATE:</b>                                                                                                                                                                          | 09/03/2015               |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                          |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>    |
| ASTRIPHEY APPLICATIONS L.L.C.                                                                                                                                                                   | 08/26/2015               |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                          |
| <b>Name:</b>                                                                                                                                                                                    | CALLAHAN CELLULAR L.L.C. |
| <b>Street Address:</b>                                                                                                                                                                          | 2711 CENTERVILLE RD      |
| <b>Internal Address:</b>                                                                                                                                                                        | SUITE 400                |
| <b>City:</b>                                                                                                                                                                                    | WILMINGTON               |
| <b>State/Country:</b>                                                                                                                                                                           | DELAWARE                 |
| <b>Postal Code:</b>                                                                                                                                                                             | 19808                    |
| <b>PROPERTY NUMBERS Total: 8</b>                                                                                                                                                                |                          |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>            |
| Patent Number:                                                                                                                                                                                  | 7390735                  |
| Patent Number:                                                                                                                                                                                  | 6252288                  |
| Patent Number:                                                                                                                                                                                  | 6503343                  |
| Patent Number:                                                                                                                                                                                  | 6906356                  |
| Patent Number:                                                                                                                                                                                  | 7135740                  |
| Patent Number:                                                                                                                                                                                  | 7247550                  |
| Patent Number:                                                                                                                                                                                  | 8012865                  |
| Patent Number:                                                                                                                                                                                  | 7659614                  |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                          |
| <b>Fax Number:</b>                                                                                                                                                                              | (425)679-0580            |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                          |
| <b>Email:</b>                                                                                                                                                                                   | ivrecording@intven.com   |
| <b>Correspondent Name:</b>                                                                                                                                                                      | FOLEY & LARDNER LLP      |
| <b>Address Line 1:</b>                                                                                                                                                                          | 150 EAST GILMAN STREET   |
| <b>Address Line 2:</b>                                                                                                                                                                          | VEREX PLAZA              |
| <b>Address Line 4:</b>                                                                                                                                                                          | MADISON, WISCONSIN 53703 |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | JOANN REYNOLDS           |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>SIGNATURE:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | /Joann Reynolds/ |
| <b>DATE SIGNED:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 01/13/2016       |
| <b>Total Attachments: 34</b><br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page1.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page2.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page3.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page4.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page5.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page6.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page7.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page8.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page9.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page10.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page11.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page12.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page13.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page14.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page15.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page16.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page17.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page18.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page19.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page20.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page21.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page22.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page23.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page24.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page25.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page26.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page27.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page28.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page29.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page30.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page31.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page32.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page33.tif<br>source=++ CALLAHAN CELLULAR LLC - DE filed Merger Certificate_03 Sept 2015#page34.tif |                  |

# Delaware

PAGE 1

*The First State*

I, JEFFREY W. BULLOCK, 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:

"ABEDNEJA ASSETS AG L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"ABIAHA REMOTE, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"AGAVIX INVESTMENTS LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"ALANZOR RESEARCH A.B. LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"ALERUS TRANSFER LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"ALSCHATAG DAFF GMBH, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"ALSEMIT REMOTE LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"ALSOSTOPHOLLIS ASSETS II, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"AMOSMET INVESTMENTS LLC", A DELAWARE LIMITED LIABILITY COMPANY,



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Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2703533

DATE: 09-03-15

PATENT  
REEL: 037509 FRAME: 0697

# Delaware

PAGE 2

*The First State*

"ANTOPHOLI SOFTWARE, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"ARIGERN CAPITAL L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"ARVOSS TECHNOLOGIES LTD. LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"AS TERHOLMAN CO., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"ASTRIPHEY APPLICATIONS L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"AVENPORE PROPERTIES LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"BARONOTEK ENTERPRISES CO. LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

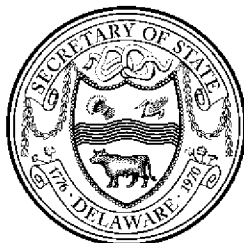
"BASAVAN SOFTWARE DE L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"BEDISH, POLESA & CAMIEL L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"BELLA TOSSO AG, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

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# Delaware

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*The First State*

"BINFORMA GROUP LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"BINTEROJA CONSULTING LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"BOLIQUE APPLICATIONS LTD., L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"BORESHIRE FUND LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"BORGEAU RUX LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"BRADY IS SOLUTIONS, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"BUVANE HOLDINGS LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"CAILTAE, VOSS & PIJ MGMT., L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"CALDVOR ACQUISITIONS LTD., LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"CARCHELOS MGMT. LTD. L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

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"CARMENSO DATA LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"CASANTRA ACQUISITION III LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"CASTANI CO. L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"CEASORO APPLICATIONS L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. III, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. I, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. IX, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. VIII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. VII, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. VI, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. V, LLC", A DELAWARE LIMITED

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PAGE 5

*The First State*

LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XIII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XII, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XI, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XIV, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XIX, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XVII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XVI, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XV, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXIII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXII, LLC", A DELAWARE

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# Delaware

PAGE 6

*The First State*

LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXI, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXIV, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXIX, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XX, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXVIII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXVII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXXIII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXXII, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXXIV, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXX, LLC", A DELAWARE LIMITED

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LIABILITY COMPANY,

"C.H.I. DEVELOPMENT MGMT. LTD. XXXV, LLC", A DELAWARE  
LIMITED LIABILITY COMPANY,

"CISPARIE GROUP LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"COBBLER APPLICATIONS LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"CODAIS DATA LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"COLTRA CAPITAL LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"CONSTAD TRANSFER, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"COSITOPHALUS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"CUREN SOFTWARE ENTERPRISES, L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"DA CAPITAL FUND LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"DACREOUS CO. LIMITED LIABILTY COMPANY", A DELAWARE LIMITED

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PAGE 8

*The First State*

LIABILITY COMPANY,

"DAFINEAIS PROTOCOL DATA B.V., LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"DANPAROS CONSULTING L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"DESTAZE TOK GROUP, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"DIMOD WHIN ENTERPRISES L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"DISTALMA MANAGEMENT LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"DITROMOSSİ REMOTE BV, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"DORMARKE ASSETS LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"DOSINIUM CAPITAL A.B. LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"DRANIAS DEVELOPMENT LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"DUILOE MGMT. LIMITED LIABILITY COMPANY", A DELAWARE LIMITED

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# Delaware

PAGE 9

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LIABILITY COMPANY,

"EASTERN IX GROUP LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"EIGHT ESEMAY DE L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"EIKOLLA CAPITAL NY, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"EIRIKER POST GMBH., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"EPOCIZE PROPERTIES N.A. LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"EZACHA SERVICES NY, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"FA CALUTE K.G., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"FARODALL MGMT. NY, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"FISHELKO RESEARCH LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"FOLMANUZ MGMT. L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

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# Delaware

PAGE 10

*The First State*

"FOLTORA SERVICE LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"FOLUSHA FORTE B.V., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"FONNTERRA DATA LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"FORSETT ENTERPRISES LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"FORTELLI CAMPRAS SA, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"FORTREAN V, LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"FOUR DALPHO BROS., L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"GALLISTROFF SOFTWARE LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"GARRIMANO CAPITAL LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"GASPANSA REMOTE LTD., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

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"GESCHLAAKT HOLDINGS GMBH, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"GOPALA SOLUTIONS LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"GUNTERHOL GMBH, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"HOLLINBECK MGMT. GMBH, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"HUANG RESEARCH PTE. LTD., L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"ICANUSTI GROUP L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"IMOPHAZE RESEARCH CO., L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"IONAPHAL DATA LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"ITROLAMER HOLDINGS AG L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"IV LBS ASSETS 2 LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"JASPIN TRANSFER BV, LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

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# Delaware

PAGE 12

*The First State*

"JINSALAS SOLUTIONS, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"JIQUIN RESEARCH LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"JOALISTER FRAM AB, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"JORDAAN CONSULTING LTD. X, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"JOST SOLUTIONS LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"JOWTIFF BROS. A.B., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"JUALONNE B.V., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"KAPERNELLY ASSETS AG, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"KEANTOP LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"KOLOSKEV PREM B.V., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"KOLVOS INVESTMENT HOLDINGS A.B., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

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# Delaware

PAGE 13

*The First State*

"KOMARANNI PROPERTIES, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"KORISHMA HOLDINGS, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"KUALO PROPERTIES AU, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"KUHURO INVESTMENTS AG, L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"KULNRUD GROLL AB, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"KWICTRAC SERVICES PA, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"LAASTRA TELECOM GMBH LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"LAMARTELL TECHNOLOGY, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"LAQUDER DEVELOPMENT FI, L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"LAROSSA PROPERTIES LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

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"LITRELL BROS. LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"LIVY SRVCS. LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"LOAS TEI PTE., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"LOZE MGMT. LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"LUCJAV CAPITAL, LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"MAISETTEM B.V., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"MAKERIAN B.V. LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"MANJOTRE DATA LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"MANTROSE GROUP LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"MAPLE INVESTMENT SVCS. CO. LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"MASINOLLI FUND LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

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# Delaware

PAGE 15

*The First State*

"MASSIMO DIN SOLUTIONS, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"MOMIN DEVELOPMENT FUND LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"MOSTAK RESEARCH CO., L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"MUCHOSTRO FOUNDATION, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"MUNICASCHI BROS. LTD, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"NASTALOR VENTERI TRE L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"NINEL TECHNOLOGY, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"NOREGIN ASSETS N.V., L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"NOSADIA PASS NV, LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"O'HASTINER SVC. LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

5024281 8100M

151252847



  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2703533

DATE: 09-03-15

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PATENT  
REEL: 037509 FRAME: 0711

# Delaware

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*The First State*

"OLERCHEFSKI NETWORKS, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"OLTINE ACQUISITIONS NY L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"OMEREEN WIRELESS, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"OPHIVAIN APPLICATIONS NY L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"OSTRASSE KRALL GMBH., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"OTOMAKU PROPERTIES LTD., L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"OTRSOTECH, LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"PASHIREE LTD. IN, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"PELGOPHAL CO. LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"PETORONSKI FOUNDATION NY LLC", A DELAWARE LIMITED LIABILITY COMPANY,



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AUTHENTICATION: 2703533

DATE: 09-03-15

PATENT  
REEL: 037509 FRAME: 0712

# Delaware

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*The First State*

"PETRIE DATA CO., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"PHENTAM DIRE NV, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"PHON ACQUISITIONS LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"POSOLIS FUND LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"POTEL, KARO & HATRAM, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"P.P.P. CAPITAL ONE, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"PRASENDT INVESTMENTS, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"PRASHTAMA WIRELESS LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"PRATT HOLCO KG LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"PROSTA TORRA NV, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

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REEL: 037509 FRAME: 0713

# Delaware

PAGE 18

*The First State*

"PROTARIUS FILO AG, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"PUEBLOMASO DATA LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"PUVAAL APPLICATIONS AG, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"QELIKISHI LTD. LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"QUANTOLL PRATT CO. L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"QUINTENCE PROPERTIES KG, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"QUINTRAS FOUNDATION AG L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"QUIVANUS PROCESSING LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"QUONSIL PL. 3, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"QUOTROS IX CO. AG, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"RADMILA SOLUTIONS, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

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AUTHENTICATION: 2703533

DATE: 09-03-15

PATENT  
REEL: 037509 FRAME: 0714

# Delaware

PAGE 19

*The First State*

"RANOLDASIN TELECOM LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"RAWOR SYSTEMS DEVELOPMENT LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"REALOTTO LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"REWIY FOUNDATION LTD. L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"RIALCARDO TICE B.V. LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"RIMONCHA DATA CO LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"RIULISTRO SOLUTIONS NY, L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

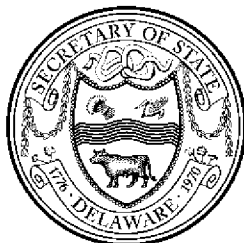
"ROLDAN BLOCK NY, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"ROSENSTRAUSS APPLICATIONS V, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"SANSOCCA ALANDRO A.B., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

5024281 8100M

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PATENT  
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# Delaware

PAGE 20

*The First State*

"SCHUKHAUS GROUP GMBH, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"SCHULKORT TRIO LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"SERADEAUX ASSETS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"SHINSAKA INVESTMENTS LTD., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"SOKIA MGMT. LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"SR ADAM RESEARCH AG LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"SULVANUSS CAPITAL L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"TAFFCO THREE FUND, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"TAJITSHU TRANSFER LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"TAMAKOTOMO HOLDINGS CO. L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

5024281 8100M

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REEL: 037509 FRAME: 0716

# Delaware

PAGE 21

*The First State*

"TARABUNK FUND LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"TAROFISS DATA LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"TARQUIN CONSULTING CO., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"TEIGEL PROCESSING AB, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"THES INVESTMENTS LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"TIJEMIKSHO DATA, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"TOKASHINA HOLDINGS LTD., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"TUTKO NETWORKS CO., L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"TWO SOFTWARE FOUNDATION, L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"TYSAB SOLUTIONS GROUP LTD., LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

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Jeffrey W. Bullock, Secretary of State  
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# Delaware

PAGE 22

*The First State*

"UBERGRAFF UGHIF GMBH., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"UCETRANS KG, LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"URENSCHI ASSETS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"VADARRO SERVICES LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"VALKAMARI REMOTE LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"VALPARAN DEVELOPMENT LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"VALPOLARE HOLDINGS, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"VANCLOOS AG, LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"VAXEFUILE DATA, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"VELTRA REMOTE DE, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"VICETTA PAC CO. L.L.C.", A DELAWARE LIMITED LIABILITY

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# Delaware

PAGE 23

*The First State*

COMPANY,

"VINTELL APPLICATIONS NY, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"VINTOMIE NETWORKS B.V., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"VIVIANA RESEARCH LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"VOANESSE P.E. FACILITY LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"VOLEX PROPERTIES L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"VONQUALIS HOLDINGS CO. LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"VONSHIRE TECHNOLOGIES L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"VOORKEES ENTERPRISES A.B. LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"VUMTEMRA, ASHTON, COLL PC, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"WAKISONI INVESTMENTS PA, L.L.C.", A DELAWARE LIMITED

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# Delaware

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*The First State*

LIABILITY COMPANY,

"WAMBARIN APPLICATIONS AB, L.L.C.", A DELAWARE LIMITED  
LIABILITY COMPANY,

"WASINOSKI PROCTER, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"WEBLER SOLUTIONS, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"WENIBULA PORT PTE., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"W. IL INVESTMENTS I, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"WINSTATE INVESTMENTS LIMITED, LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"WISANTRA NETWORKS, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"WISPO SOFTWARE LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"WISTERIUM DEVELOPMENT LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"WOLKOSISKI MGMT. LLC", A DELAWARE LIMITED LIABILITY

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# Delaware

PAGE 25

*The First State*

COMPANY,

"WOODSIDE CREST NY, LLC", A DELAWARE LIMITED LIABILITY

COMPANY,

"WOSHENCHESTER SOLUTIONS LLC", A DELAWARE LIMITED LIABILITY

COMPANY,

"XALOTROFF FUND V, LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"XIALAN CHI LTD., LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"XILOPREM TRE LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"XILUSHUA NETWORKS LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"XINSHU MANAGEMENT, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

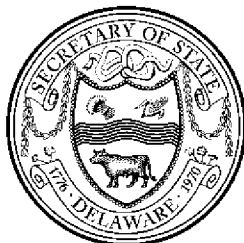
"XOLKOMAR ENTERPRISES L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"XORAM DEVELOPMENT, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"XUGAVE HOLDING DE LLC", A DELAWARE LIMITED LIABILITY

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AUTHENTICATION: 2703533

DATE: 09-03-15

PATENT  
REEL: 037509 FRAME: 0721

# Delaware

PAGE 26

*The First State*

COMPANY,

"YAGHASHIMI FOUNDATION LTD., LLC", A DELAWARE LIMITED  
LIABILITY COMPANY,

"YAKIMISHU CO. LTD., L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"YASZISTRA FUND III, LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

"YOLAB NETWORKS, L.L.C.", A DELAWARE LIMITED LIABILITY  
COMPANY,

"YORALL RESEARCH LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"ZANNI ASSETS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED  
LIABILITY COMPANY,

"ZAVALTORN TECHNOLOGIES LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

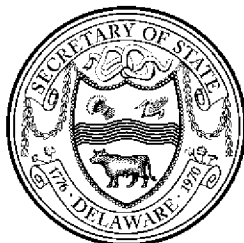
"ZITI TECHNOLOGIES LIMITED LIABILITY COMPANY", A DELAWARE  
LIMITED LIABILITY COMPANY,

"ZOLTAS ENTERPRISES AG LLC", A DELAWARE LIMITED LIABILITY  
COMPANY,

WITH AND INTO "CALLAHAN CELLULAR L.L.C." UNDER THE NAME OF

5024281 8100M

151252847



  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2703533

DATE: 09-03-15

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PATENT  
REEL: 037509 FRAME: 0722

# Delaware

PAGE 27

*The First State*

"CALLAHAN CELLULAR L.L.C.", A LIMITED LIABILITY COMPANY  
ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE,  
AS RECEIVED AND FILED IN THIS OFFICE THE THIRD DAY OF SEPTEMBER,  
A.D. 2015, AT 9:01 O'CLOCK A.M.



5024281 8100M

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Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2703533

DATE: 09-03-15

PATENT  
REEL: 037509 FRAME: 0723

**CERTIFICATE OF MERGER  
OF  
NON-SURVIVING ENTITIES LISTED BELOW  
INTO  
CALLAHAN CELLULAR L.L.C.**

The undersigned entity, organized and existing under and by virtue of the Delaware Limited Liability Company Act, does hereby certify as follows:

1. The name and jurisdiction of formation of the constituent entities are as follows:

| <u>Name</u>                                   | <u>Jurisdiction<br/>of<br/>Formation</u> | <u>Type of Entity</u>     |
|-----------------------------------------------|------------------------------------------|---------------------------|
| <i>The Surviving Entity:</i>                  |                                          |                           |
| Callahan Cellular L.L.C.                      | Delaware                                 | Limited Liability Company |
| <i>The Non-Surviving Entities:</i>            |                                          |                           |
| Abedneja Assets AG L.L.C.                     | Delaware                                 | Limited Liability Company |
| Abiaha Remote, L.L.C.                         | Delaware                                 | Limited Liability Company |
| Agavix Investments LLC                        | Delaware                                 | Limited Liability Company |
| Alanzor Research A.B. LLC                     | Delaware                                 | Limited Liability Company |
| Alerus Transfer LLC                           | Delaware                                 | Limited Liability Company |
| Alschatag Daff GmbH, LLC                      | Delaware                                 | Limited Liability Company |
| Alsemit Remote Limited Liability Company      | Delaware                                 | Limited Liability Company |
| Alsostophollis Assets II, L.L.C.              | Delaware                                 | Limited Liability Company |
| Amosmet Investments LLC                       | Delaware                                 | Limited Liability Company |
| Antopholi Software, LLC                       | Delaware                                 | Limited Liability Company |
| Arigern Capital L.L.C.                        | Delaware                                 | Limited Liability Company |
| Arvoss Technologies Ltd. LLC                  | Delaware                                 | Limited Liability Company |
| AS Terholman Co., LLC                         | Delaware                                 | Limited Liability Company |
| Astriphey Applications L.L.C.                 | Delaware                                 | Limited Liability Company |
| Avenpore Properties Limited Liability Company | Delaware                                 | Limited Liability Company |
| Baronotek Enterprises Co. LLC                 | Delaware                                 | Limited Liability Company |
| Basavan Software DE L.L.C.                    | Delaware                                 | Limited Liability Company |
| Bedish, Polesa & Carniel L.L.C.               | Delaware                                 | Limited Liability Company |
| Bella Tosso AG, L.L.C.                        | Delaware                                 | Limited Liability Company |
| Binforma Group Limited Liability Company      | Delaware                                 | Limited Liability Company |
| Binteroja Consulting LLC                      | Delaware                                 | Limited Liability Company |
| Bolique Applications Ltd., L.L.C.             | Delaware                                 | Limited Liability Company |
| Boreshire Fund Limited Liability Company      | Delaware                                 | Limited Liability Company |
| Borgeau Rux Limited Liability Company         | Delaware                                 | Limited Liability Company |
| Brady IS Solutions, L.L.C.                    | Delaware                                 | Limited Liability Company |
| Buvane Holdings Limited Liability Company     | Delaware                                 | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. I, LLC          | Delaware                                 | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. III, LLC        | Delaware                                 | Limited Liability Company |

Phyllis Turner-Brim  
E-signed 2015-08-27 09:49AM PDT  
pturnerbrim@intven.com  
Intellectual Ventures  
VP Chief IP Counsel

Byron E Springer Jr  
E-signed 2015-08-27 11:05AM PDT  
bspringer@intven.com

*The Non-Surviving Entities -- continuing*

|                                           | Jurisdiction<br>of<br>Formation | Type of Entity            |
|-------------------------------------------|---------------------------------|---------------------------|
| C.H.I. Development Mgmt. Ltd. IX, LLC     | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. V, LLC      | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. VI, LLC     | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. VII, LLC    | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. VIII, LLC   | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XI, LLC     | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XII, LLC    | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XIII, LLC   | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XIV, LLC    | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XIX, LLC    | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XV, LLC     | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XVI, LLC    | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XVII, LLC   | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XX, LLC     | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XXI, LLC    | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XXII, LLC   | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XXIII, LLC  | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XXIV, LLC   | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XXIX, LLC   | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XXVII, LLC  | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XXVIII, LLC | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XXX, LLC    | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XXXII, LLC  | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XXXIII, LLC | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XXXIV, LLC  | Delaware                        | Limited Liability Company |
| C.H.I. Development Mgmt. Ltd. XXXV, LLC   | Delaware                        | Limited Liability Company |
| Cailtae, Voss & Pij Mgmt., L.L.C.         | Delaware                        | Limited Liability Company |
| Caldvor Acquisitions Ltd., LLC            | Delaware                        | Limited Liability Company |
| Carchelos Mgmt. Ltd. L.L.C.               | Delaware                        | Limited Liability Company |
| Carmenso Data Limited Liability Company   | Delaware                        | Limited Liability Company |
| Casantra Acquisition III LLC              | Delaware                        | Limited Liability Company |
| Castani Co. L.L.C.                        | Delaware                        | Limited Liability Company |
| Ceasoro Applications L.L.C.               | Delaware                        | Limited Liability Company |
| Cisparie Group Limited Liability Company  | Delaware                        | Limited Liability Company |
| Cobbler Applications LLC                  | Delaware                        | Limited Liability Company |
| Codais Data Limited Liability Company     | Delaware                        | Limited Liability Company |
| Coltra Capital Limited Liability Company  | Delaware                        | Limited Liability Company |
| Constad Transfer, LLC                     | Delaware                        | Limited Liability Company |
| Cositophalus Limited Liability Company    | Delaware                        | Limited Liability Company |
| Curen Software Enterprises, L.L.C.        | Delaware                        | Limited Liability Company |
| DA Capital Fund Limited Liability Company | Delaware                        | Limited Liability Company |
| Dacreous Co. Limited Liability Company    | Delaware                        | Limited Liability Company |
| Dafineais Protocol Data B.V., LLC         | Delaware                        | Limited Liability Company |

Phyllis Turner-Brim  
E-signed 2015-08-27 09:49AM PDT  
pturnerbrim@intven.com  
Intellectual Ventures  
VP Chief IP Counsel

Byron E Springer Jr  
E-signed 2015-08-27 11:05AM PDT  
bspringer@intven.com

*The Non-Surviving Entities – continuing*

|                                               | Jurisdiction<br>of<br>Formation | Type of Entity            |
|-----------------------------------------------|---------------------------------|---------------------------|
| Danparos Consulting L.L.C.                    | Delaware                        | Limited Liability Company |
| Destaze TOK Group, LLC                        | Delaware                        | Limited Liability Company |
| Dimod Whin Enterprises L.L.C.                 | Delaware                        | Limited Liability Company |
| Distalma Management LLC                       | Delaware                        | Limited Liability Company |
| Ditromossi Remote BV, L.L.C.                  | Delaware                        | Limited Liability Company |
| Dormarke Assets Limited Liability Company     | Delaware                        | Limited Liability Company |
| Dosinium Capital A.B. LLC                     | Delaware                        | Limited Liability Company |
| Dranias Development LLC                       | Delaware                        | Limited Liability Company |
| Duiloie Mgmt. Limited Liability Company       | Delaware                        | Limited Liability Company |
| Eastern IX Group LLC                          | Delaware                        | Limited Liability Company |
| Eight Esemay DE L.L.C.                        | Delaware                        | Limited Liability Company |
| Eikolla Capital NY, LLC                       | Delaware                        | Limited Liability Company |
| Eiriker Post GmbH, LLC                        | Delaware                        | Limited Liability Company |
| Epocize Properties N.A. LLC                   | Delaware                        | Limited Liability Company |
| Ezacha Services NY, L.L.C.                    | Delaware                        | Limited Liability Company |
| FA Calute K.G., LLC                           | Delaware                        | Limited Liability Company |
| Farodall Mgmt. NY, L.L.C.                     | Delaware                        | Limited Liability Company |
| Fishelko Research LLC                         | Delaware                        | Limited Liability Company |
| Folmanuz Mgmt. L.L.C.                         | Delaware                        | Limited Liability Company |
| Foltora Service Limited Liability Company     | Delaware                        | Limited Liability Company |
| Folusha Forte B.V., LLC                       | Delaware                        | Limited Liability Company |
| Fonnterra Data Limited Liability Company      | Delaware                        | Limited Liability Company |
| Forsett Enterprises Limited Liability Company | Delaware                        | Limited Liability Company |
| Fortelli Campras SA, LLC                      | Delaware                        | Limited Liability Company |
| Fortean V, Limited Liability Company          | Delaware                        | Limited Liability Company |
| Four Dalpho Bros., L.L.C.                     | Delaware                        | Limited Liability Company |
| Gallistroff Software LLC                      | Delaware                        | Limited Liability Company |
| Garrimano Capital Limited Liability Company   | Delaware                        | Limited Liability Company |
| Gaspanza Remote Ltd., LLC                     | Delaware                        | Limited Liability Company |
| Geschlaakt Holdings GmbH, LLC                 | Delaware                        | Limited Liability Company |
| Gopala Solutions Limited Liability Company    | Delaware                        | Limited Liability Company |
| Gunterhol GmbH, LLC                           | Delaware                        | Limited Liability Company |
| Hollinbeck Mgmt. GmbH, LLC                    | Delaware                        | Limited Liability Company |
| Huang Research Pte. Ltd., L.L.C.              | Delaware                        | Limited Liability Company |
| Icanusti Group L.L.C.                         | Delaware                        | Limited Liability Company |
| Imophaze Research Co., L.L.C.                 | Delaware                        | Limited Liability Company |
| Ionaphal Data Limited Liability Company       | Delaware                        | Limited Liability Company |
| Itrolamer Holdings AG L.L.C.                  | Delaware                        | Limited Liability Company |
| IV LBS Assets 2 LLC                           | Delaware                        | Limited Liability Company |
| Jaspin Transfer BV, Limited Liability Company | Delaware                        | Limited Liability Company |
| Jinsalas Solutions, LLC                       | Delaware                        | Limited Liability Company |
| Jiquin Research Limited Liability Company     | Delaware                        | Limited Liability Company |
| Joalister Fram AB, L.L.C.                     | Delaware                        | Limited Liability Company |

Phyllis Turner-Brim

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Intellectual Ventures

VP Chief IP Counsel

Byron E Springer Jr

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*The Non-Surviving Entities – continuing*

|                                              | Jurisdiction<br>of<br>Formation | Type of Entity            |
|----------------------------------------------|---------------------------------|---------------------------|
| Jordaan Consulting Ltd. X, LLC               | Delaware                        | Limited Liability Company |
| Jost Solutions LLC                           | Delaware                        | Limited Liability Company |
| Jowtiff Bros. A.B., LLC                      | Delaware                        | Limited Liability Company |
| Jualonne B.V., LLC                           | Delaware                        | Limited Liability Company |
| Kapernelly Assets AG, LLC                    | Delaware                        | Limited Liability Company |
| Keantop Limited Liability Company            | Delaware                        | Limited Liability Company |
| Koloskev Prem B.V., LLC                      | Delaware                        | Limited Liability Company |
| Kolvos Investment Holdings A.B., LLC         | Delaware                        | Limited Liability Company |
| Komaranni Properties, L.L.C.                 | Delaware                        | Limited Liability Company |
| Korishma Holdings, LLC                       | Delaware                        | Limited Liability Company |
| Kualo Properties AU, LLC                     | Delaware                        | Limited Liability Company |
| Kuhuro Investments AG, L.L.C.                | Delaware                        | Limited Liability Company |
| Kulnrud Groll AB, LLC                        | Delaware                        | Limited Liability Company |
| Kwictrac Services PA, L.L.C.                 | Delaware                        | Limited Liability Company |
| Laastra Telecom GmbH LLC                     | Delaware                        | Limited Liability Company |
| Lamartell Technology, L.L.C.                 | Delaware                        | Limited Liability Company |
| Laquder Development FI, L.L.C.               | Delaware                        | Limited Liability Company |
| Larossa Properties Limited Liability Company | Delaware                        | Limited Liability Company |
| Litrell Bros. Limited Liability Company      | Delaware                        | Limited Liability Company |
| Livy Svcs. Limited Liability Company         | Delaware                        | Limited Liability Company |
| Loas Tei Pte., LLC                           | Delaware                        | Limited Liability Company |
| Loze Mgmt. Limited Liability Company         | Delaware                        | Limited Liability Company |
| Lucjav Capital, Limited Liability Company    | Delaware                        | Limited Liability Company |
| Maisettem B.V., LLC                          | Delaware                        | Limited Liability Company |
| Makerian B.V. Limited Liability Company      | Delaware                        | Limited Liability Company |
| Manjotre Data Limited Liability Company      | Delaware                        | Limited Liability Company |
| Mantrose Group Limited Liability Company     | Delaware                        | Limited Liability Company |
| Maple Investment Svcs. Co. LLC               | Delaware                        | Limited Liability Company |
| Masinolli Fund Limited Liability Company     | Delaware                        | Limited Liability Company |
| Massimo Din Solutions, LLC                   | Delaware                        | Limited Liability Company |
| Momin Development Fund LLC                   | Delaware                        | Limited Liability Company |
| Mostak Research Co., L.L.C.                  | Delaware                        | Limited Liability Company |
| Muchostro Foundation, L.L.C.                 | Delaware                        | Limited Liability Company |
| Municaschi Bros. Ltd, L.L.C.                 | Delaware                        | Limited Liability Company |
| Nastalor Venter Tre L.L.C.                   | Delaware                        | Limited Liability Company |
| Ninel Technology, LLC                        | Delaware                        | Limited Liability Company |
| Noregin Assets N.V., L.L.C.                  | Delaware                        | Limited Liability Company |
| Nosadia Pass NV, Limited Liability Company   | Delaware                        | Limited Liability Company |
| O'Hastiner Svc. Limited Liability Company    | Delaware                        | Limited Liability Company |
| Olerchefski Networks, L.L.C.                 | Delaware                        | Limited Liability Company |
| Oltine Acquisitions NY L.L.C.                | Delaware                        | Limited Liability Company |
| Omereen Wireless, LLC                        | Delaware                        | Limited Liability Company |
| Ophivain Applications NY L.L.C.              | Delaware                        | Limited Liability Company |

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*The Non-Surviving Entities – continuing*

|                                             | Jurisdiction<br>of<br>Formation | Type of Entity            |
|---------------------------------------------|---------------------------------|---------------------------|
| Ostrasse Krall GmbH., LLC                   | Delaware                        | Limited Liability Company |
| Otomaku Properties Ltd., L.L.C.             | Delaware                        | Limited Liability Company |
| Otrsotech, Limited Liability Company        | Delaware                        | Limited Liability Company |
| P.P.P. Capital One, LLC                     | Delaware                        | Limited Liability Company |
| Pashiree Ltd. IN, L.L.C.                    | Delaware                        | Limited Liability Company |
| Pelgophal Co. Limited Liability Company     | Delaware                        | Limited Liability Company |
| Petoronski Foundation NY LLC                | Delaware                        | Limited Liability Company |
| Petrie Data Co., LLC                        | Delaware                        | Limited Liability Company |
| Phentam Dire NV, LLC                        | Delaware                        | Limited Liability Company |
| Phon Acquisitions Limited Liability Company | Delaware                        | Limited Liability Company |
| Posolis Fund Limited Liability Company      | Delaware                        | Limited Liability Company |
| Potel, Karo & Hatram, L.L.C.                | Delaware                        | Limited Liability Company |
| Prasendt Investments, LLC                   | Delaware                        | Limited Liability Company |
| Prashtama Wireless LLC                      | Delaware                        | Limited Liability Company |
| Pratt Holco KG Limited Liability Company    | Delaware                        | Limited Liability Company |
| Prosta Torra NV, LLC                        | Delaware                        | Limited Liability Company |
| Protarius Filo AG, L.L.C.                   | Delaware                        | Limited Liability Company |
| Pueblomaso Data Limited Liability Company   | Delaware                        | Limited Liability Company |
| Puvaal Applications AG, LLC                 | Delaware                        | Limited Liability Company |
| Qelikishi Ltd. LLC                          | Delaware                        | Limited Liability Company |
| Quantoll Pratt Co. L.L.C.                   | Delaware                        | Limited Liability Company |
| Quintence Properties KG, LLC                | Delaware                        | Limited Liability Company |
| Quintras Foundation AG L.L.C.               | Delaware                        | Limited Liability Company |
| Quivanus Processing LLC                     | Delaware                        | Limited Liability Company |
| Quonsil Pl. 3, LLC                          | Delaware                        | Limited Liability Company |
| Quotros IX Co. AG, L.L.C.                   | Delaware                        | Limited Liability Company |
| Radmila Solutions, L.L.C.                   | Delaware                        | Limited Liability Company |
| Ranoldasin Telecom LLC                      | Delaware                        | Limited Liability Company |
| Rawor Systems Development LLC               | Delaware                        | Limited Liability Company |
| Realotto Limited Liability Company          | Delaware                        | Limited Liability Company |
| Rewiy Foundation Ltd. L.L.C.                | Delaware                        | Limited Liability Company |
| Rialcardo Tice B.V. LLC                     | Delaware                        | Limited Liability Company |
| Rimoncha Data Co LLC                        | Delaware                        | Limited Liability Company |
| Riulistro Solutions NY, L.L.C.              | Delaware                        | Limited Liability Company |
| Roldan Block NY, LLC                        | Delaware                        | Limited Liability Company |
| Rosenstrauss Applications V, LLC            | Delaware                        | Limited Liability Company |
| Schukhaus Group GmbH, LLC                   | Delaware                        | Limited Liability Company |
| Schulkort Trio Limited Liability Company    | Delaware                        | Limited Liability Company |
| Seradeaux Assets Limited Liability Company  | Delaware                        | Limited Liability Company |
| Shinsaka Investments Ltd., LLC              | Delaware                        | Limited Liability Company |
| Sokia Mgmt. Limited Liability Company       | Delaware                        | Limited Liability Company |
| SR Adram Research AG LLC                    | Delaware                        | Limited Liability Company |
| Sulvanuss Capital L.L.C.                    | Delaware                        | Limited Liability Company |

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*The Non-Surviving Entities – continuing*

|                                             | Jurisdiction<br>of<br>Formation | Type of Entity            |
|---------------------------------------------|---------------------------------|---------------------------|
| TaffCo Three Fund, L.L.C.                   | Delaware                        | Limited Liability Company |
| Tajitshu Transfer Limited Liability Company | Delaware                        | Limited Liability Company |
| Tamakotomo Holdings Co. L.L.C.              | Delaware                        | Limited Liability Company |
| Tarabunk Fund Limited Liability Company     | Delaware                        | Limited Liability Company |
| Tarofiss Data Limited Liability Company     | Delaware                        | Limited Liability Company |
| Tarquin Consulting Co., LLC                 | Delaware                        | Limited Liability Company |
| Teigel Processing AB, L.L.C.                | Delaware                        | Limited Liability Company |
| Thes Investments Limited Liability Company  | Delaware                        | Limited Liability Company |
| Tijemiksho Data, LLC                        | Delaware                        | Limited Liability Company |
| Tokashina Holdings Ltd., LLC                | Delaware                        | Limited Liability Company |
| Tutko Networks Co., L.L.C.                  | Delaware                        | Limited Liability Company |
| Two Software Foundation, L.L.C.             | Delaware                        | Limited Liability Company |
| Tysab Solutions Group Ltd., LLC             | Delaware                        | Limited Liability Company |
| Ubergraff Ughif GmbH, LLC                   | Delaware                        | Limited Liability Company |
| Ucetrans KG, Limited Liability Company      | Delaware                        | Limited Liability Company |
| Urensch Assets Limited Liability Company    | Delaware                        | Limited Liability Company |
| Vadarro Services Limited Liability Company  | Delaware                        | Limited Liability Company |
| Valkamari Remote Limited Liability Company  | Delaware                        | Limited Liability Company |
| Valparan Development LLC                    | Delaware                        | Limited Liability Company |
| Valpolare Holdings, LLC                     | Delaware                        | Limited Liability Company |
| vanCloos AG, Limited Liability Company      | Delaware                        | Limited Liability Company |
| Vaxefuile Data, LLC                         | Delaware                        | Limited Liability Company |
| Veltra Remote DE, L.L.C.                    | Delaware                        | Limited Liability Company |
| Vicetta Pac Co. L.L.C.                      | Delaware                        | Limited Liability Company |
| Vintell Applications NY, LLC                | Delaware                        | Limited Liability Company |
| Vintomie Networks B.V., LLC                 | Delaware                        | Limited Liability Company |
| Viviana Research LLC                        | Delaware                        | Limited Liability Company |
| Voanesse P.E. Facility LLC                  | Delaware                        | Limited Liability Company |
| Volex Properties L.L.C.                     | Delaware                        | Limited Liability Company |
| Vonqualis Holdings Co. LLC                  | Delaware                        | Limited Liability Company |
| Vonshire Technologies L.L.C.                | Delaware                        | Limited Liability Company |
| Voorkees Enterprises A.B. LLC               | Delaware                        | Limited Liability Company |
| Vumtemra, Ashton, Coll PC, LLC              | Delaware                        | Limited Liability Company |
| W. IL Investments I, LLC                    | Delaware                        | Limited Liability Company |
| Wakisoni Investments PA, L.L.C.             | Delaware                        | Limited Liability Company |
| Wambarin Applications AB, L.L.C.            | Delaware                        | Limited Liability Company |
| Wasinowski Procter, LLC                     | Delaware                        | Limited Liability Company |
| Webler Solutions, LLC                       | Delaware                        | Limited Liability Company |
| Wenibula Port Pte., LLC                     | Delaware                        | Limited Liability Company |
| Winstate Investments Limited, LLC           | Delaware                        | Limited Liability Company |
| Wisentra Networks, LLC                      | Delaware                        | Limited Liability Company |
| Wispo Software Limited Liability Company    | Delaware                        | Limited Liability Company |
| Wisterium Development LLC                   | Delaware                        | Limited Liability Company |
| Wolkosiski Mgmt. LLC                        | Delaware                        | Limited Liability Company |

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*The Non-Surviving Entities – continuing*

|                                             | Jurisdiction<br>of<br>Formation | Type of Entity            |
|---------------------------------------------|---------------------------------|---------------------------|
| Woodside Crest NY, LLC                      | Delaware                        | Limited Liability Company |
| Woshenchester Solutions LLC                 | Delaware                        | Limited Liability Company |
| Xalotroff Fund V, Limited Liability Company | Delaware                        | Limited Liability Company |
| Xialan Chi Ltd., LLC                        | Delaware                        | Limited Liability Company |
| Xiloprem Tre Limited Liability Company      | Delaware                        | Limited Liability Company |
| Xilushua Networks Limited Liability Company | Delaware                        | Limited Liability Company |
| Xinshu Management, L.L.C.                   | Delaware                        | Limited Liability Company |
| Xolkomar Enterprises L.L.C.                 | Delaware                        | Limited Liability Company |
| Xoram Development, LLC                      | Delaware                        | Limited Liability Company |
| Xugave Holding DE LLC                       | Delaware                        | Limited Liability Company |
| Yaghashimi Foundation Ltd., LLC             | Delaware                        | Limited Liability Company |
| Yakimishu Co. Ltd., L.L.C.                  | Delaware                        | Limited Liability Company |
| Yaszistra Fund III, LLC                     | Delaware                        | Limited Liability Company |
| Yolab Networks, L.L.C.                      | Delaware                        | Limited Liability Company |
| Yorall Research Limited Liability Company   | Delaware                        | Limited Liability Company |
| Zanni Assets Limited Liability Company      | Delaware                        | Limited Liability Company |
| Zavaltorn Technologies LLC                  | Delaware                        | Limited Liability Company |
| Ziti Technologies Limited Liability Company | Delaware                        | Limited Liability Company |
| Zoltas Enterprises AG LLC                   | Delaware                        | Limited Liability Company |
| Sansocca Alandro A.B., LLC                  | Delaware                        | Limited Liability Company |

2. An agreement of merger has been approved and executed by each of the constituent entities in accordance with Section 18-209 of the Delaware Limited Liability Company Act.

3. The name of the surviving entity is Callahan Cellular L.L.C.

4. The Certificate of Formation of Callahan Cellular L.L.C. shall be the Certificate of Formation of the surviving limited liability company.

5. The executed agreement of merger is on file at the principal place of business of the surviving entity located at 3150 139th Avenue SE, Building 4, Bellevue, Washington 98005.

6. A copy of the agreement of merger will be furnished by the surviving entity, on request and without cost, to any member of any constituent limited liability company.

IN WITNESS WHEREOF, the surviving limited liability company has caused this certificate to be signed by an authorized person, dated August 28, 2015.

CALLAHAN CELLULAR L.L.C.

By: Byron E. Springer Jr  
Byron E Springer Jr (Aug 27, 2015)  
Name: Byron E Springer Jr  
Its: Assistant Secretary

Phyllis Turner-Brim  
E-signed 2015-08-27 09:49AM PDT  
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