

Client Code: IRDM.048C1C1 / IDC-040012C1C1 **RECORDATION FORM COVER SHEET**  
**PATENTS ONLY**

To the Director, U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Name of conveying party(ies): (List using letters or numbers for multiple parties)</p> <p>1. IDC, LLC</p> <p>Additional name(s) of conveying party(ies) attached?</p> <p>( ) Yes (X) No</p>                                                                                                                                                                                                                                                                                                                                                  | <p>2. Name and address of receiving party(ies):</p> <p><b>Name:</b> QUALCOMM MEMS Technologies, Inc.</p> <p><b>Internal Address:</b></p> <p><b>Street Address:</b> 5775 Morehouse Drive</p> <p><b>City:</b> San Diego <b>State:</b> CA</p> <p><b>ZIP:</b> 92121</p> <p>Additional name(s) of receiving party(ies) attached?</p> <p>( ) Yes (X) No</p> |
| <p>3. Nature of conveyance:</p> <p>(X) Assignment ( ) Security Agreement</p> <p>( ) Merger ( ) Change of Name</p> <p>( ) Other:</p> <p>Execution Date: (List as in section 1 if multiple signatures)</p> <p>1. September 25, 2009</p>                                                                                                                                                                                                                                                                                                              | <p>4. US or PCT Application number(s) or US Patent number(s):</p> <p>(X) Patent Application No.: 12/940884</p> <p>Filing Date: November 5, 2010</p> <p>Additional numbers attached?</p> <p>( ) Yes (X) No</p>                                                                                                                                         |
| <p>5. Party to whom correspondence concerning document should be mailed:</p> <p><b>Customer No.</b> 59,747</p> <p><b>Address:</b> Knobbe, Martens, Olson &amp; Bear, LLP<br/>2040 Main Street, 14<sup>th</sup> Floor<br/>Irvine, CA 92614</p> <p><b>Return Fax:</b> (949) 760-9502</p> <p><b>Attorney's Docket No.:</b> IRDM.048C1C1/<br/>IDC-040012C1C1</p>                                                                                                                                                                                       | <p>6. Total number of applications and patents involved: 1</p>                                                                                                                                                                                                                                                                                        |
| <p>7. Total fee (37 CFR 1.21(h)): \$40</p> <p>(X) Authorized to be charged to deposit account</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>8. Deposit account number: 11-1410</p> <p>Please charge this account for any additional fees which may be required, or credit any overpayment to this account.</p>                                                                                                                                                                                 |
| <p>9. Statement and signature.</p> <p>To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.</p> <p><u>Gregory A. Hermanson</u><br/>Name of Person Signing</p> <p><u>53,018</u><br/>Registration No.</p> <p><u></u> Signature</p> <p><u>4/21/2011</u> Date</p> <p>Total number of pages including cover sheet, attachments and document: 16 total no of pgs</p> |                                                                                                                                                                                                                                                                                                                                                       |

Documents transmitted via Facsimile to be recorded with required cover sheet information to:

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### ASSIGNMENT

WHEREAS, IDC, LLC, a Delaware limited liability company having offices at 3055 Badger Drive, Pleasanton, CA 94566 U.S.A. (hereinafter "ASSIGNOR"), represents that it is the sole owner of the entire right, title, and interest to certain new and useful improvements for which ASSIGNOR has obtained issued Letters Patents and/or has filed applications for Letters Patents (hereinafter "the Patents and Patent Applications") identified in the following exhibits attached hereto, which respectively list patents and patent applications in:

|                                                      |                         |
|------------------------------------------------------|-------------------------|
| United States of America                             | Exhibit A (in 12 pages) |
| Brazil                                               | Exhibit B (in 3 pages)  |
| Canada                                               | Exhibit C (in 3 pages)  |
| People's Republic of China (PRC) including Hong Kong | Exhibit D (in 6 pages)  |
| European Patent Office                               | Exhibit E (in 4 pages)  |
| India                                                | Exhibit F (in 3 pages)  |
| Japan                                                | Exhibit G (in 4 pages)  |
| South Korea                                          | Exhibit H (in 3 pages)  |
| Malaysia                                             | Exhibit I (in 3 pages)  |
| Mexico                                               | Exhibit J (in 3 pages)  |
| Russia                                               | Exhibit K (in 3 pages)  |
| Singapore                                            | Exhibit L (in 3 pages)  |
| Taiwan (ROC)                                         | Exhibit M (in 4 pages)  |
| Vietnam                                              | Exhibit N (in 3 pages)  |
| Australia                                            | Exhibit O (in 3 pages)  |
| Israel                                               | Exhibit P (in 3 pages)  |
| International Applications                           | Exhibit Q (in 1 page)   |

WHEREAS, QUALCOMM MEMS Technologies, Inc. (formerly named Iridigm Display Corporation), a Delaware corporation having offices at 5775 Morchouse Drive, San Diego, California 92121 U.S.A. (hereinafter "ASSIGNEE") desires to acquire the entire right, title, and interest in and to said improvements and said Patents and Patent Applications;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned, transferred and set over, and does hereby sell, assign, and transfer, unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest throughout the world in, to, and under the said improvements, the said Patents and Patent Applications, all Patents that may be granted thereon, all provisional applications relating thereto, and all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent that may have been or hereafter be filed (whether or not such applications are particularly listed in said exhibits) for said improvements or for the said Patents and Patent Applications in any country or countries foreign to the United States; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patents for said improvements and all Letters Patents resulting from the Patents and Patent Applications to ASSIGNEE, its successors, legal representatives, and assigns, in accordance with the terms of this Agreement.

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ASSIGNOR does hereby sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the Letters Patents before or after issuance;

ASSIGNOR hereby covenants and agrees that it will communicate to ASSIGNEE, its successors, legal representatives, and assigns any facts known to ASSIGNOR respecting the Patents and Patent Applications immediately upon becoming aware of those facts, and that it will testify in any legal proceeding involving any of the Patents and Patent Applications, will sign all lawful papers, execute all divisional, continuation, continuation-in-part, and reissue applications, make all rightful oaths and/or declarations, and will generally do everything possible to aid ASSIGNEE, its successors, legal representatives, and assigns to obtain and enforce the Patents and Patent Applications in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

IDC, LLC

By: *Vivek Mehra*

Name Printed: VIVEK MEHRA

Title: MANAGER

Date: SEPTEMBER 25, 2009

STATE OF California

COUNTY OF San Diego

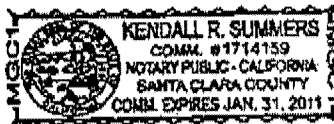
On September 25, 2009, before me, KENDALL R. SUMMERS, notary public, personally appeared who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that executed the same in authorized capacity(ies), and that by signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

*Kendall R. Summers*  
Notary Signature



Page 3 of 3

2009 IN TESTIMONY WHEREOF, acknowledged hereunto this 25<sup>th</sup> day of SEPTEMBER,

QUALCOMM MEMS Technologies, Inc.

By: 

Name Printed: John Bates

Title: PRESIDENT

Date: 9/25/09

7828319

**EXHIBIT A**  
**US Patents and Patent Applications**

IDC, LLC -- QUALCOMM MEMS Technologies, Inc.  
Assignment Executed September 25, 2009

| <b>Attorney Docket No.</b> | <b>Application No.</b> | <b>Filing Date</b> | <b>Issue Date</b> | <b>Patent No.</b> |
|----------------------------|------------------------|--------------------|-------------------|-------------------|
| IRDM.001A                  | 10/794737              | 3/3/2004           | 10/10/2006        | 7119945           |
| IRDM.002A                  | 10/772120              | 2/3/2004           | 5/12/2009         | 7532194           |
| IRDM.003A                  | 10/794825              | 3/5/2004           |                   |                   |
| IRDM.003C1                 | 11/417808              | 5/3/2006           |                   |                   |
| IRDM.004A                  | 10/700641              | 11/3/2003          | 3/14/2006         | 7012726           |
| IRDM.005A                  | 10/839307              | 5/4/2004           | 6/13/2006         | 7060895           |
| IRDM.005C1                 | 11/436345              | 5/18/2006          | 1/9/2007          | 7161094           |
| IRDM.006A                  | 10/883902              | 7/2/2004           | 8/14/2007         | 7256922           |
| IRDM.006DV1                | 11/837140              | 8/10/2007          |                   |                   |
| IRDM.007A                  | 10/839329              | 5/4/2004           | 1/13/2009         | 7476327           |
| IRDM.007C1                 | 12/271793              | 11/14/2008         |                   |                   |
| IRDM.008A                  | 10/844819              | 5/12/2004          | 1/16/2007         | 7164520           |
| IRDM.008C1                 | 11/653088              | 1/12/2007          | 10/28/2008        | 7443563           |
| IRDM.008C2                 | 12/019590              | 1/24/2008          |                   |                   |
| IRDM.009A                  | 11/062143              | 2/18/2005          |                   |                   |
| IRDM.009PR                 | 60/613418              | 9/27/2004          |                   |                   |
| IRDM.010A                  | 11/036965              | 1/14/2005          | 3/11/2008         | 7342705           |
| IRDM.010C1                 | 12/034499              | 2/20/2008          |                   |                   |
| IRDM.010DV1                | 12/014657              | 1/15/2008          |                   |                   |
| IRDM.010PR                 | 60/541607              | 2/3/2004           |                   |                   |
| IRDM.011A                  | 11/045588              | 1/28/2005          |                   |                   |
| IRDM.011PR                 | 60/613417              | 9/27/2004          |                   |                   |
| IRDM.012A                  | 11/041020              | 1/21/2005          |                   |                   |
| IRDM.012PR                 | 60/613482              | 9/27/2004          |                   |                   |
| IRDM.013PR                 | 60/613405              | 9/27/2004          |                   |                   |
| IRDM.014PR2                | 60/613493              | 9/27/2004          |                   |                   |
| IRDM.015A                  | 11/090775              | 3/25/2005          | 11/27/2007        | 7299681           |
| IRDM.015C1                 | 11/945196              | 11/26/2007         |                   |                   |
| IRDM.015PR                 | 60/613385              | 9/27/2004          |                   |                   |
| IRDM.016A                  | 11/036966              | 1/14/2005          |                   |                   |
| IRDM.016PR                 | 60/550687              | 3/6/2004           |                   |                   |
| IRDM.017A1                 | 10/909228              | 7/29/2004          |                   |                   |
| IRDM.017CP1                | 11/189690              | 7/26/2005          | 7/28/2009         | 7567373           |
| IRDM.017CP1D1              | 12/241600              | 9/30/2008          |                   |                   |
| IRDM.017PR2                | 60/613466              | 9/27/2004          |                   |                   |
| IRDM.017PR3                | 60/658867              | 3/4/2005           |                   |                   |
| IRDM.018A                  | 11/097819              | 4/1/2005           |                   |                   |
| IRDM.018PR                 | 60/613412              | 9/27/2004          |                   |                   |
| IRDM.019A                  | 11/040822              | 1/21/2005          |                   |                   |
| IRDM.019PR                 | 60/613500              | 9/27/2004          |                   |                   |

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Assignment Executed September 25, 2009

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|---------------------|-----------------|-------------|------------|------------|
| IRDM.020A           | 11/045800       | 1/28/2005   | 2/27/2007  | 7184202    |
| IRDM.020DV1         | 11/679134       | 2/26/2007   | 4/14/2009  | 7518775    |
| IRDM.020DV1C1       | 12/423531       | 4/14/2009   |            |            |
| IRDM.020PR          | 60/613275       | 9/27/2004   |            |            |
| IRDM.021A           | 11/187784       | 7/22/2005   |            |            |
| IRDM.021PR          | 60/613264       | 9/27/2004   |            |            |
| IRDM.022A2          | 11/159073       | 2/25/2005   | 7/14/2009  | 7560299    |
| IRDM.022A2DV1       | 12/501338       | 7/10/2009   |            |            |
| IRDM.022PR1         | 60/604896       | 8/27/2004   |            |            |
| IRDM.022PR2         | 60/606223       | 8/31/2004   |            |            |
| IRDM.023A1          | 11/182389       | 7/15/2005   | 3/3/2009   | 7499208    |
| IRDM.023A1DV1       | 12/396395       | 3/2/2009    |            |            |
| IRDM.023A2          | 11/054703       | 2/8/2005    | 4/7/2009   | 7515147    |
| IRDM.023A4          | 11/026555       | 12/30/2004  |            |            |
| IRDM.023PR          | 60/604893       | 8/27/2004   |            |            |
| IRDM.024A           | 06/855116       | 4/23/1986   |            |            |
| IRDM.024C1          | 07/166774       | 3/4/1988    |            |            |
| IRDM.024C2          | 07/296896       | 1/12/1989   |            |            |
| IRDM.024C3          | 07/489794       | 3/5/1990    |            |            |
| IRDM.024C4          | 07/794819       | 11/18/1991  |            |            |
| IRDM.024C5          | 08/032711       | 3/17/1993   |            |            |
| IRDM.024CP          | 08/238750       | 5/5/1994    | 11/10/1998 | 5835255    |
| IRDM.025C           | 08/744253       | 11/5/1996   | 11/16/1999 | 5986796    |
| IRDM.025CC          | 09/378143       | 8/20/1999   |            |            |
| IRDM.025CCD         | 10/082397       | 2/25/2002   | 10/24/2006 | 7126738    |
| IRDM.025CCDC1       | 11/585791       | 10/23/2006  | 6/10/2008  | 7385748    |
| IRDM.026A           | 11/027693       | 12/30/2004  |            |            |
| IRDM.026A2          | 11/045865       | 1/28/2005   | 6/23/2009  | 7551159    |
| IRDM.026A2C1        | 12/468004       | 5/18/2009   |            |            |
| IRDM.026PR          | 60/604892       | 8/27/2004   |            |            |
| IRDM.027CP          | 08/554630       | 11/6/1995   |            |            |
| IRDM.027CPD         | 08/688710       | 7/31/1996   | 3/21/2000  | 6040937    |
| IRDM.027CPDC        | 09/238340       | 1/27/1999   | 4/25/2000  | 6055090    |
| IRDM.028A           | 11/103378       | 4/11/2005   | 1/22/2008  | 7321456    |
| IRDM.028C1          | 12/018038       | 1/22/2008   | 4/7/2009   | 7515327    |
| IRDM.028PR          | 60/613597       | 9/27/2004   |            |            |
| IRDM.029CP          | 08/769947       | 12/19/1996  |            |            |
| IRDM.029CPC         | 09/991378       | 11/21/2001  |            |            |
| IRDM.029CPCD        | 10/078282       | 2/19/2002   | 5/9/2006   | 7042643    |
| IRDM.029CPCDCP      | 10/644312       | 8/19/2003   | 12/2/2008  | 7460291    |

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|---------------------|-----------------|-------------|------------|------------|
| IRDM.029CPCDCPC     | 12/325964       | 12/1/2008   |            |            |
| IRDM.029CPCDD       | 10/844802       | 5/12/2004   | 10/9/2007  | 7280265    |
| IRDM.029CPCDDC      | 11/868414       | 10/5/2007   |            |            |
| IRDM.029CPD         | 09/974544       | 10/10/2001  | 1/20/2004  | 6680792    |
| IRDM.030A           | 11/051258       | 2/4/2005    |            |            |
| IRDM.030PR          | 60/613542       | 9/27/2004   |            |            |
| IRDM.031CP          | 09/056975       | 4/8/1998    | 1/6/2004   | 6674562    |
| IRDM.031CPCP        | 10/076224       | 2/13/2002   | 3/23/2004  | 6710908    |
| IRDM.031CPD         | 09/966843       | 9/28/2001   | 3/15/2005  | 6867896    |
| IRDM.031CPDC        | 11/056571       | 2/11/2005   | 5/27/2008  | 7379227    |
| IRDM.031CPDC2       | 11/070497       | 3/1/2005    | 3/14/2006  | 7012732    |
| IRDM.031CPDCC10     | 11/754229       | 5/25/2007   | 5/12/2009  | 7532381    |
| IRDM.031CPDD        | 10/752140       | 1/5/2004    |            |            |
| IRDM.031CPDDD       | 12/031603       | 2/14/2008   |            |            |
| IRDM.032A           | 11/154283       | 6/16/2005   | 10/31/2006 | 7130104    |
| IRDM.032DV1         | 11/589582       | 10/30/2006  | 6/10/2008  | 7385762    |
| IRDM.032DV1C1       | 12/014675       | 1/15/2008   |            |            |
| IRDM.032DV1DV1      | 12/014639       | 1/15/2008   |            |            |
| IRDM.032PR          | 60/613558       | 9/27/2004   |            |            |
| IRDM.033A           | 11/150407       | 6/10/2005   | 3/18/2008  | 7345805    |
| IRDM.033C1          | 12/050094       | 3/17/2008   |            |            |
| IRDM.033PR          | 60/613501       | 9/27/2004   |            |            |
| IRDM.034A           | 11/119432       | 4/29/2005   | 9/2/2008   | 7420725    |
| IRDM.034DV1         | 11/925692       | 10/26/2007  | 6/2/2009   | 7542198    |
| IRDM.034DV1C1       | 12/426168       | 4/17/2009   |            |            |
| IRDM.034PR          | 60/613480       | 9/27/2004   |            |            |
| IRDM.035A           | 11/057045       | 2/11/2005   | 10/30/2007 | 7289259    |
| IRDM.035C1          | 11/875613       | 10/19/2007  |            |            |
| IRDM.035CP1         | 11/772730       | 7/2/2007    |            |            |
| IRDM.035PR          | 60/613372       | 9/27/2004   |            |            |
| IRDM.036A           | 11/193012       | 7/29/2005   | 12/18/2007 | 7310179    |
| IRDM.036C1          | 11/958316       | 12/17/2007  | 8/18/2009  | 7576901    |
| IRDM.036C1C1        | 12/499004       | 7/7/2009    |            |            |
| IRDM.036PR          | 60/613382       | 9/27/2004   |            |            |
| IRDM.037A           | 10/074562       | 2/12/2002   | 9/21/2004  | 6794119    |
| IRDM.037C1          | 10/941042       | 9/14/2004   | 7/31/2007  | 7250315    |
| IRDM.037C1C1        | 11/830750       | 7/30/2007   |            |            |
| IRDM.038A           | 11/051251       | 2/4/2005    | 11/28/2006 | 7142346    |
| IRDM.038DV1         | 11/586180       | 10/25/2006  | 7/10/2007  | 7242512    |
| IRDM.038DV2         | 11/586179       | 10/25/2006  | 6/17/2008  | 7388697    |

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Assignment Executed September 25, 2009

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|---------------------|-----------------|-------------|------------|------------|
| IRDM.038DV2C1       | 12/102759       | 4/14/2008   | 6/9/2009   | 7545554    |
| IRDM.038DV2C1C1     | 12/435256       | 5/4/2009    |            |            |
| IRDM.038PR          | 60/613458       | 9/27/2004   |            |            |
| IRDM.039A           | 11/134490       | 5/20/2005   | 5/5/2009   | 7527995    |
| IRDM.039C1          | 12/436000       | 5/5/2009    |            |            |
| IRDM.039PR          | 60/613411       | 9/27/2004   |            |            |
| IRDM.040A           | 11/205268       | 8/15/2005   | 11/14/2006 | 7136213    |
| IRDM.040C1          | 11/586800       | 10/26/2006  |            |            |
| IRDM.040PR          | 60/613420       | 9/27/2004   |            |            |
| IRDM.041A           | 11/112487       | 4/22/2005   |            |            |
| IRDM.041PR          | 60/613450       | 9/27/2004   |            |            |
| IRDM.042A           | 11/149920       | 6/10/2005   | 6/30/2009  | 7554714    |
| IRDM.042PR          | 60/613552       | 9/27/2004   |            |            |
| IRDM.043A           | 11/144546       | 6/3/2005    |            |            |
| IRDM.043PR          | 60/613465       | 9/27/2004   |            |            |
| IRDM.044A           | 11/100762       | 4/6/2005    |            |            |
| IRDM.044CP1         | 11/234061       | 9/22/2005   |            |            |
| IRDM.044PR          | 60/613483       | 9/27/2004   |            |            |
| IRDM.045A           | 11/040824       | 1/21/2005   |            |            |
| IRDM.045PR          | 60/613978       | 9/27/2004   |            |            |
| IRDM.046A           | 11/077974       | 3/11/2005   |            |            |
| IRDM.046PR          | 60/613297       | 9/27/2004   |            |            |
| IRDM.047A           | 11/057392       | 2/11/2005   | 4/8/2008   | 7355780    |
| IRDM.047C1          | 11/417431       | 5/3/2006    | 3/25/2008  | 7349139    |
| IRDM.047C2          | 12/036668       | 2/25/2008   |            |            |
| IRDM.047PR          | 60/613536       | 9/27/2004   |            |            |
| IRDM.048A           | 11/112734       | 4/22/2005   | 5/13/2008  | 7372613    |
| IRDM.048C1          | 12/115829       | 5/6/2008    |            |            |
| IRDM.048CP1         | 11/772777       | 7/2/2007    |            |            |
| IRDM.048PR          | 60/613486       | 9/27/2004   |            |            |
| IRDM.049A           | 11/052004       | 2/4/2005    | 3/25/2008  | 7349141    |
| IRDM.049C1          | 12/036958       | 2/25/2008   |            |            |
| IRDM.049PR          | 60/613471       | 9/27/2004   |            |            |
| IRDM.050A           | 11/213659       | 8/26/2005   |            |            |
| IRDM.050PR          | 60/613403       | 9/27/2004   |            |            |
| IRDM.051A           | 11/045738       | 1/28/2005   | 9/9/2008   | 7424198    |
| IRDM.051C1          | 12/192908       | 8/15/2008   |            |            |
| IRDM.051PR          | 60/613318       | 9/27/2004   |            |            |
| IRDM.052A           | 11/102554       | 4/8/2005    |            |            |
| IRDM.052C1          | 12/415986       | 3/31/2009   |            |            |

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|---------------------|-----------------|-------------|------------|------------|
| IRDM.052PR          | 60/613476       | 9/27/2004   |            |            |
| IRDM.053A           | 11/150496       | 6/10/2005   |            |            |
| IRDM.053PR          | 60/613563       | 9/27/2004   |            |            |
| IRDM.054A           | 11/102543       | 4/8/2005    |            |            |
| IRDM.054PR          | 60/613485       | 9/27/2004   |            |            |
| IRDM.055A           | 11/108026       | 4/15/2005   | 8/11/2009  | 7573547    |
| IRDM.055PR          | 60/613682       | 9/27/2004   |            |            |
| IRDM.056CP          | 09/413222       | 10/5/1999   | 10/17/2006 | 7123216    |
| IRDM.056CPC1        | 11/390996       | 3/28/2006   | 1/27/2009  | 7483197    |
| IRDM.056CPC1C1      | 11/841847       | 8/20/2007   |            |            |
| IRDM.056CPC1C2      | 12/360005       | 1/26/2009   |            |            |
| IRDM.056CPC2        | 11/438913       | 5/23/2006   | 5/13/2008  | 7372619    |
| IRDM.056CPC2C1      | 11/564800       | 11/29/2006  | 4/8/2008   | 7355782    |
| IRDM.056CPC2DV1     | 12/099057       | 4/7/2008    |            |            |
| IRDM.056CPC3        | 11/150682       | 6/10/2005   | 6/17/2008  | 7388706    |
| IRDM.056CPC4        | 11/255347       | 10/21/2005  | 6/26/2007  | 7236284    |
| IRDM.056CPC5        | 11/445926       | 6/1/2006    | 3/6/2007   | 7187489    |
| IRDM.056CPC5C1      | 11/584425       | 10/20/2006  |            |            |
| IRDM.056CPC7        | 11/492533       | 7/24/2006   |            |            |
| IRDM.056CPC7C       | 12/336357       | 12/16/2008  |            |            |
| IRDM.056CPCP        | 11/140561       | 5/26/2005   |            |            |
| IRDM.056CPD1        | 10/012092       | 11/13/2001  | 11/18/2003 | 6650455    |
| IRDM.056CPD2        | 10/224029       | 8/19/2002   | 9/19/2006  | 7110158    |
| IRDM.057A           | 11/090774       | 3/25/2005   | 7/29/2008  | 7405924    |
| IRDM.057A2          | 11/090481       | 3/25/2005   | 5/6/2008   | 7368803    |
| IRDM.057C1          | 12/181283       | 7/28/2008   |            |            |
| IRDM.057PR          | 60/613408       | 9/27/2004   |            |            |
| IRDM.058A           | 11/134028       | 5/20/2005   | 11/4/2008  | 7446926    |
| IRDM.058PR          | 60/613564       | 9/27/2004   |            |            |
| IRDM.059A1          | 11/090552       | 3/25/2005   | 9/2/2008   | 7420728    |
| IRDM.059A2          | 11/090778       | 3/25/2005   | 9/30/2008  | 7429334    |
| IRDM.059PR          | 60/613401       | 9/27/2004   |            |            |
| IRDM.060A           | 11/073295       | 3/4/2005    | 4/15/2008  | 7359066    |
| IRDM.060DV1         | 12/031602       | 2/14/2008   |            |            |
| IRDM.060PR          | 60/613537       | 9/27/2004   |            |            |
| IRDM.061A           | 11/213644       | 8/19/2005   |            |            |
| IRDM.061DV1         | 12/265689       | 11/5/2008   |            |            |
| IRDM.061PR          | 60/613481       | 9/27/2004   |            |            |
| IRDM.062A           | 11/155939       | 6/17/2005   |            |            |
| IRDM.062PR          | 60/613488       | 9/27/2004   |            |            |

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| IRDM.063A1                 | 11/218887              | 9/2/2005           |                   |                   |
| IRDM.063A2                 | 11/228118              | 9/16/2005          | 6/9/2009          | 7545550           |
| IRDM.063A2DV1              | 12/467130              | 5/15/2009          |                   |                   |
| IRDM.063PR                 | 60/613319              | 9/27/2004          |                   |                   |
| IRDM.064A                  | 11/048662              | 1/27/2005          |                   |                   |
| IRDM.064A2                 | 11/208052              | 8/19/2005          | 2/5/2008          | 7327510           |
| IRDM.064A2C1               | 11/961744              | 12/20/2007         | 5/12/2009         | 7532386           |
| IRDM.064A3                 | 11/203613              | 8/12/2005          |                   |                   |
| IRDM.064PR                 | 60/613499              | 9/27/2004          |                   |                   |
| IRDM.065A1                 | 11/118110              | 4/29/2005          |                   |                   |
| IRDM.065A2                 | 11/118605              | 4/29/2005          |                   |                   |
| IRDM.065PR                 | 60/613491              | 9/27/2004          |                   |                   |
| IRDM.065PR1                | 60/623072              | 10/28/2004         |                   |                   |
| IRDM.066A                  | 11/156335              | 6/17/2005          | 3/24/2009         | 7508571           |
| IRDM.066DV1                | 12/339614              | 12/19/2008         |                   |                   |
| IRDM.066PR                 | 60/613535              | 9/27/2004          |                   |                   |
| IRDM.067A                  | 11/064143              | 2/22/2005          |                   |                   |
| IRDM.067PR                 | 60/613951              | 9/27/2004          |                   |                   |
| IRDM.068A                  | 11/140560              | 5/27/2005          |                   |                   |
| IRDM.068CP1                | 11/698521              | 1/25/2007          |                   |                   |
| IRDM.068PR                 | 60/613298              | 9/27/2004          |                   |                   |
| IRDM.069A                  | 11/096545              | 4/1/2005           | 11/27/2007        | 7302157           |
| IRDM.069C1                 | 11/861222              | 9/25/2007          | 2/17/2009         | 7492503           |
| IRDM.069C1C1               | 12/343111              | 12/23/2008         |                   |                   |
| IRDM.069PR                 | 60/613539              | 9/27/2004          |                   |                   |
| IRDM.070A                  | 11/066724              | 2/24/2005          | 12/2/2008         | 7460246           |
| IRDM.070C1                 | 12/260037              | 10/28/2008         |                   |                   |
| IRDM.070PR                 | 60/613624              | 9/27/2004          |                   |                   |
| IRDM.071A                  | 11/078025              | 3/11/2005          |                   |                   |
| IRDM.071PR                 | 60/613487              | 9/27/2004          |                   |                   |
| IRDM.072PR                 | 60/613419              | 9/27/2004          |                   |                   |
| IRDM.073A                  | 11/155379              | 6/17/2005          | 6/30/2009         | 7553684           |
| IRDM.073DV1                | 12/494032              | 6/29/2009          |                   |                   |
| IRDM.073PR                 | 60/613496              | 9/27/2004          |                   |                   |
| IRDM.074A                  | 11/107518              | 4/15/2005          | 6/23/2009         | 7551246           |
| IRDM.074PR                 | 60/613300              | 9/27/2004          |                   |                   |
| IRDM.075A                  | 11/140498              | 5/27/2005          |                   |                   |
| IRDM.075PR                 | 60/613280              | 9/27/2004          |                   |                   |
| IRDM.076PR                 | 60/613956              | 9/27/2004          |                   |                   |
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| IRDM.078A                  | 11/119433              | 4/29/2005          |                   |                   |
| IRDM.078PR                 | 60/613852              | 9/27/2004          |                   |                   |
| IRDM.079PR                 | 60/613467              | 9/27/2004          |                   |                   |
| IRDM.080A                  | 11/134838              | 5/20/2005          |                   |                   |
| IRDM.080PR                 | 60/613527              | 9/27/2004          |                   |                   |
| IRDM.081A                  | 11/144305              | 6/3/2005           |                   |                   |
| IRDM.081PR                 | 60/613801              | 9/27/2004          |                   |                   |
| IRDM.082A                  | 11/173822              | 7/1/2005           | 3/11/2008         | 7343080           |
| IRDM.082C1                 | 12/021196              | 1/28/2008          |                   |                   |
| IRDM.082DV1                | 12/021218              | 1/28/2008          | 8/4/2009          | 7570865           |
| IRDM.082PR                 | 60/613567              | 9/27/2004          |                   |                   |
| IRDM.083A                  | 11/089769              | 3/16/2005          | 8/21/2007         | 7259449           |
| IRDM.083C1                 | 11/842916              | 8/21/2007          |                   |                   |
| IRDM.083DV1                | 11/779185              | 7/17/2007          |                   |                   |
| IRDM.083PR                 | 60/613569              | 9/27/2004          |                   |                   |
| IRDM.084PR                 | 60/613320              | 9/27/2004          |                   |                   |
| IRDM.085PR                 | 60/613406              | 9/27/2004          |                   |                   |
| IRDM.086A                  | 11/139108              | 5/27/2005          | 3/25/2008         | 7349136           |
| IRDM.086PR                 | 60/613290              | 9/27/2004          |                   |                   |
| IRDM.087A                  | 11/183049              | 7/15/2005          | 6/23/2009         | 7550912           |
| IRDM.087PR                 | 60/613502              | 9/27/2004          |                   |                   |
| IRDM.088PR                 | 60/613377              | 9/27/2004          |                   |                   |
| IRDM.089A                  | 11/187129              | 7/21/2005          | 12/4/2007         | 7304784           |
| IRDM.089C1                 | 11/937437              | 11/8/2007          |                   |                   |
| IRDM.089PR                 | 60/613323              | 9/27/2004          |                   |                   |
| IRDM.090A                  | 11/192438              | 7/28/2005          |                   |                   |
| IRDM.090PR                 | 60/613593              | 9/27/2004          |                   |                   |
| IRDM.091A                  | 11/208072              | 8/19/2005          |                   |                   |
| IRDM.091PR                 | 60/613452              | 9/27/2004          |                   |                   |
| IRDM.092A                  | 11/134837              | 5/20/2005          |                   |                   |
| IRDM.092PR                 | 60/613853              | 9/27/2004          |                   |                   |
| IRDM.093A                  | 11/174220              | 7/1/2005           | 5/13/2008         | 7373026           |
| IRDM.093C1                 | 12/104309              | 4/16/2008          |                   |                   |
| IRDM.093DV1                | 12/104280              | 4/16/2008          |                   |                   |
| IRDM.093PR                 | 60/613376              | 9/27/2004          |                   |                   |
| IRDM.094A                  | 11/090491              | 3/25/2005          |                   |                   |
| IRDM.094PR                 | 60/613977              | 9/27/2004          |                   |                   |
| IRDM.095A                  | 11/198127              | 8/5/2005           | 2/17/2009         | 7492502           |
| IRDM.095PR                 | 60/613299              | 9/27/2004          |                   |                   |
| IRDM.096A                  | 11/090773              | 3/25/2005          |                   |                   |

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| IRDM.096PR                 | 60/613410              | 9/27/2004          |                   |                   |
| IRDM.097A                  | 11/208420              | 8/19/2005          | 7/21/2009         | 7564612           |
| IRDM.097C1                 | 12/506089              | 7/20/2009          |                   |                   |
| IRDM.097PR                 | 60/613566              | 9/27/2004          |                   |                   |
| IRDM.098A                  | 11/083030              | 3/17/2005          |                   |                   |
| IRDM.098DV1                | 12/467942              | 5/18/2009          |                   |                   |
| IRDM.098PR                 | 60/613423              | 9/27/2004          |                   |                   |
| IRDM.099PR                 | 60/613477              | 9/27/2004          |                   |                   |
| IRDM.100PR                 | 60/613489              | 9/27/2004          |                   |                   |
| IRDM.101A                  | 11/074253              | 3/7/2005           |                   |                   |
| IRDM.101PR                 | 60/613478              | 9/27/2004          |                   |                   |
| IRDM.102A                  | 11/208809              | 8/22/2005          |                   |                   |
| IRDM.102PR                 | 60/613475              | 9/27/2004          |                   |                   |
| IRDM.103A                  | 11/209143              | 8/22/2005          |                   |                   |
| IRDM.103PR                 | 60/613568              | 9/27/2004          |                   |                   |
| IRDM.104A                  | 11/173551              | 7/1/2005           | 8/26/2008         | 7417783           |
| IRDM.104DV1                | 12/190520              | 8/12/2008          |                   |                   |
| IRDM.104PR                 | 60/613538              | 9/27/2004          |                   |                   |
| IRDM.105A                  | 11/188130              | 7/22/2005          | 1/9/2007          | 7161730           |
| IRDM.105PR                 | 60/613610              | 9/27/2004          |                   |                   |
| IRDM.106A                  | 11/119651              | 5/2/2005           | 7/29/2008         | 7405861           |
| IRDM.106DV1                | 12/173739              | 7/15/2008          |                   |                   |
| IRDM.106PR                 | 60/613492              | 9/27/2004          |                   |                   |
| IRDM.107A                  | 11/096546              | 4/1/2005           |                   |                   |
| IRDM.107C1                 | 12/499003              | 7/7/2009           |                   |                   |
| IRDM.107PR                 | 60/613573              | 9/27/2004          |                   |                   |
| IRDM.108A                  | 11/096547              | 4/1/2005           |                   |                   |
| IRDM.108PR                 | 60/613407              | 9/27/2004          |                   |                   |
| IRDM.109A                  | 11/097509              | 4/1/2005           | 5/19/2009         | 7535466           |
| IRDM.109PR                 | 60/614360              | 9/27/2004          |                   |                   |
| IRDM.110A                  | 11/097820              | 4/1/2005           |                   |                   |
| IRDM.110PR                 | 60/613617              | 9/27/2004          |                   |                   |
| IRDM.111A                  | 11/097827              | 4/1/2005           | 5/12/2009         | 7532195           |
| IRDM.111DV1                | 12/463877              | 5/11/2009          |                   |                   |
| IRDM.111DV2                | 12/463900              | 5/11/2009          |                   |                   |
| IRDM.111PR                 | 60/613404              | 9/27/2004          |                   |                   |
| IRDM.112A                  | 11/097818              | 4/1/2005           |                   |                   |
| IRDM.112PR                 | 60/613494              | 9/27/2004          |                   |                   |
| IRDM.113A                  | 11/178036              | 7/8/2005           |                   |                   |
| IRDM.113PR                 | 60/613526              | 9/27/2004          |                   |                   |

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| IRDM.114A                  | 11/134222              | 5/20/2005          |                   |                   |
| IRDM.114CP1                | 11/216955              | 8/30/2005          |                   |                   |
| IRDM.114PR                 | 60/613409              | 9/27/2004          |                   |                   |
| IRDM.115A                  | 11/083841              | 3/18/2005          |                   |                   |
| IRDM.115PR                 | 60/613375              | 9/27/2004          |                   |                   |
| IRDM.116A                  | 11/188197              | 7/22/2005          | 4/28/2009         | 7525730           |
| IRDM.116C1                 | 12/427670              | 4/21/2009          |                   |                   |
| IRDM.116PR                 | 60/613504              | 9/27/2004          |                   |                   |
| IRDM.117A                  | 11/134007              | 5/20/2005          |                   |                   |
| IRDM.117PR                 | 60/613379              | 9/27/2004          |                   |                   |
| IRDM.118A                  | 11/197885              | 8/5/2005           | 5/6/2008          | 7369296           |
| IRDM.118DV1                | 12/027862              | 2/7/2008           |                   |                   |
| IRDM.118PR                 | 60/613451              | 9/27/2004          |                   |                   |
| IRDM.119A                  | 11/235686              | 9/26/2005          | 2/3/2009          | 7486429           |
| IRDM.119C1                 | 12/365121              | 2/3/2009           |                   |                   |
| IRDM.119PR                 | 60/613891              | 9/27/2004          |                   |                   |
| IRDM.120PR                 | 60/614032              | 9/27/2004          |                   |                   |
| IRDM.122A                  | 09/875401              | 6/5/2001           | 11/21/2006        | 7138984           |
| IRDM.123A                  | 09/921196              | 8/1/2001           | 7/8/2003          | 6589625           |
| IRDM.123RA                 | 11/176878              | 7/7/2005           | 7/15/2008         | RE40436           |
| IRDM.124A                  | 10/084893              | 2/27/2002          | 6/3/2003          | 6574033           |
| IRDM.124RA                 | 11/144210              | 6/2/2005           |                   |                   |
| IRDM.125A                  | 10/190400              | 7/2/2002           | 5/25/2004         | 6741377           |
| IRDM.126A                  | 10/251196              | 9/20/2002          | 6/23/2009         | 7550794           |
| IRDM.126CP1                | 11/090911              | 3/25/2005          |                   |                   |
| IRDM.126DV1                | 12/489250              | 6/22/2009          |                   |                   |
| IRDM.127A                  | 10/414594              | 4/15/2003          | 11/20/2007        | 7297471           |
| IRDM.127C1                 | 11/939746              | 11/14/2007         | 7/7/2009          | 7556917           |
| IRDM.127DV1                | 11/832471              | 8/1/2007           |                   |                   |
| IRDM.128A                  | 10/606001              | 6/24/2003          | 5/22/2007         | 7221495           |
| IRDM.128C1                 | 11/396245              | 3/31/2006          |                   |                   |
| IRDM.129A                  | 10/731989              | 12/9/2003          | 1/9/2007          | 7161728           |
| IRDM.129C1                 | 11/150566              | 6/10/2005          | 3/27/2007         | 7196837           |
| IRDM.129DV1                | 11/649439              | 1/3/2007           | 2/10/2009         | 7489428           |
| IRDM.129DV1C1              | 12/367422              | 2/6/2009           |                   |                   |
| IRDM.145A                  | 11/118612              | 4/29/2005          |                   |                   |
| IRDM.145C1                 | 11/511908              | 8/28/2006          |                   |                   |
| IRDM.145PR                 | 60/646053              | 1/21/2005          |                   |                   |
| IRDM.146A                  | 11/097511              | 4/1/2005           | 10/30/2007        | 7289256           |
| IRDM.146DV1                | 11/743594              | 5/2/2007           |                   |                   |

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| IRDM.146DV1C1              | 12/041618              | 3/3/2008           | 8/25/2009         | 7580176           |
| IRDM.147A                  | 11/198603              | 8/5/2005           | 8/26/2008         | 7417735           |
| IRDM.148A                  | 11/223824              | 9/9/2005           | 11/18/2008        | 7453579           |
| IRDM.150A                  | 11/217580              | 9/1/2005           | 8/19/2008         | 7415186           |
| IRDM.150C1                 | 12/192817              | 8/15/2008          |                   |                   |
| IRDM.152A                  | 11/198888              | 8/5/2005           |                   |                   |
| IRDM.152DV1                | 11/281763              | 11/17/2005         |                   |                   |
| IRDM.152DV2                | 11/281758              | 11/17/2005         | 5/6/2008          | 7369252           |
| IRDM.152DV3                | 11/281136              | 11/17/2005         | 8/21/2007         | 7259865           |
| IRDM.152DV3D1              | 11/841633              | 8/20/2007          |                   |                   |
| IRDM.152DV3D2              | 11/841635              | 8/20/2007          |                   |                   |
| IRDM.152DV4                | 11/281176              | 11/17/2005         | 7/22/2008         | 7403323           |
| IRDM.155A                  | 11/182424              | 7/15/2005          |                   |                   |
| IRDM.166A                  | 11/178211              | 7/8/2005           |                   |                   |
| IRDM.167A1                 | 11/208085              | 8/19/2005          |                   |                   |
| IRDM.167A2                 | 11/208167              | 8/19/2005          |                   |                   |
| IRDM.169A                  | 11/156334              | 6/17/2005          |                   |                   |
| IRDM.186A                  | 11/208108              | 8/20/2005          | 5/6/2008          | 7369294           |
| IRDM.186C1                 | 12/115472              | 5/5/2008           |                   |                   |
| IRDM.186C1DV1              | 12/498281              | 7/6/2009           |                   |                   |
| IRDM.187A                  | 11/194046              | 7/29/2005          | 1/8/2008          | 7317568           |
| IRDM.187C1                 | 11/969818              | 1/4/2008           |                   |                   |
| IRDM.189A                  | 11/198925              | 8/5/2005           |                   |                   |
| IRDM.190A                  | 11/156162              | 6/17/2005          | 7/14/2009         | 7561323           |
| IRDM.190C1                 | 12/477802              | 6/3/2009           |                   |                   |
| IRDM.193A                  | 11/234826              | 9/23/2005          | 11/4/2008         | 7446927           |
| IRDM.193C1                 | 12/240931              | 9/29/2008          |                   |                   |
| IRDM.194CP                 | 11/240796              | 9/29/2005          |                   |                   |
| IRDM.195CP                 | 11/241814              | 9/29/2005          |                   |                   |
| IRDM.196CP                 | 11/240795              | 9/29/2005          |                   |                   |
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| IRDM.198CP                 | 11/241849              | 9/29/2005          |                   |                   |
| IRDM.199CP                 | 11/240657              | 9/29/2005          |                   |                   |
| IRDM.200CP                 | 11/241775              | 9/29/2005          |                   |                   |
| IRDM.202A                  | 11/462026              | 8/2/2006           |                   |                   |
| IRDM.203A                  | 11/261236              | 10/28/2005         |                   |                   |
| IRDM.204A                  | 11/409677              | 4/24/2006          |                   |                   |
| IRDM.205A                  | 11/350712              | 2/9/2006           |                   |                   |
| IRDM.208A                  | 11/444567              | 6/1/2006           |                   |                   |
| IRDM.209A                  | 11/327191              | 1/6/2006           | 4/8/2008          | 7355779           |

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| IRDM.31CPDCC1       | 11/267835       | 11/4/2005   |            |            |
| IRDM.31CPDCC10D     | 12/368136       | 2/9/2009    |            |            |
| IRDM.31CPDCC11      | 11/433294       | 5/12/2006   |            |            |
| IRDM.31CPDCC12      | 11/399681       | 4/6/2006    | 5/12/2009  | 7532377    |
| IRDM.31CPDCC13      | 11/668973       | 1/30/2007   |            |            |
| IRDM.31CPDCC15      | 11/517721       | 9/8/2006    | 11/27/2007 | 7301704    |
| IRDM.31CPDCC16      | 11/580967       | 10/13/2006  |            |            |
| IRDM.31CPDCC17      | 11/591928       | 11/2/2006   | 3/31/2009  | 7511875    |
| IRDM.31CPDCC17C     | 12/363671       | 1/30/2009   |            |            |
| IRDM.31CPDCC18      | 11/841741       | 8/20/2007   |            |            |
| IRDM.31CPDCC19      | 11/698721       | 1/26/2007   |            |            |
| IRDM.31CPDCC2       | 11/267819       | 11/4/2005   |            |            |
| IRDM.31CPDCC20      | 11/841726       | 8/20/2007   |            |            |
| IRDM.31CPDCC23      | 11/841752       | 8/20/2007   |            |            |
| IRDM.31CPDCC24      | 11/841780       | 8/20/2007   |            |            |
| IRDM.31CPDCC25      | 11/841795       | 8/20/2007   |            |            |
| IRDM.31CPDCC26      | 11/841810       | 8/20/2007   |            |            |
| IRDM.31CPDCC27      | 11/841820       | 8/20/2007   |            |            |
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| IRDM.31CPDCC3       | 11/267929       | 11/4/2005   |            |            |
| IRDM.31CPDCC30      | 11/841856       | 8/20/2007   |            |            |
| IRDM.31CPDCC31      | 11/841876       | 8/20/2007   |            |            |
| IRDM.31CPDCC32      | 11/841884       | 8/20/2007   |            |            |
| IRDM.31CPDCC33      | 11/841894       | 8/20/2007   |            |            |
| IRDM.31CPDCC34      | 11/841916       | 8/20/2007   |            |            |
| IRDM.31CPDCC35      | 11/841924       | 8/20/2007   |            |            |
| IRDM.31CPDCC36      | 11/841948       | 8/20/2007   |            |            |
| IRDM.31CPDCC37      | 11/841961       | 8/20/2007   |            |            |
| IRDM.31CPDCC38      | 11/841974       | 8/20/2007   |            |            |
| IRDM.31CPDCC39      | 11/841988       | 8/20/2007   |            |            |
| IRDM.31CPDCC4       | 11/267814       | 11/4/2005   |            |            |
| IRDM.31CPDCC40      | 11/842034       | 8/20/2007   |            |            |
| IRDM.31CPDCC5       | 11/192436       | 7/28/2005   | 12/9/2008  | 7463421    |
| IRDM.31CPDCC5D      | 11/742271       | 4/30/2007   |            |            |
| IRDM.31CPDCC6       | 11/347013       | 2/3/2006    |            |            |
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| IRDM.31CPDCC8       | 11/267939       | 11/4/2005   |            |            |
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| IRDM.31CPDCC9D1     | 11/626792       | 1/24/2007   |            |            |

EXHIBIT A  
US Patents and Patent Applications

IDC, LLC -- QUALCOMM MEMS Technologies, Inc.  
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| IRDM.31CPDDC        | 11/492535       | 7/24/2006   | 6/30/2009  | 7554711    |