

## PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	FIRST LIEN PATENT SECURITY AGREEMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>REDPRAIRIE CORPORATION</td> <td>12/21/2012</td> </tr> </tbody> </table>		Name	Execution Date	REDPRAIRIE CORPORATION	12/21/2012						
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REDPRAIRIE CORPORATION	12/21/2012										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH</td> </tr> <tr> <td>Street Address:</td> <td>ELEVEN MADISON AVENUE</td> </tr> <tr> <td>City:</td> <td>NEW YORK</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>10010</td> </tr> </table>		Name:	CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH	Street Address:	ELEVEN MADISON AVENUE	City:	NEW YORK	State/Country:	NEW YORK	Postal Code:	10010
Name:	CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH										
Street Address:	ELEVEN MADISON AVENUE										
City:	NEW YORK										
State/Country:	NEW YORK										
Postal Code:	10010										
PROPERTY NUMBERS Total: 2											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Patent Number:</td> <td>5497141</td> </tr> <tr> <td>Patent Number:</td> <td>6854010</td> </tr> </tbody> </table>		Property Type	Number	Patent Number:	5497141	Patent Number:	6854010				
Property Type	Number										
Patent Number:	5497141										
Patent Number:	6854010										
CORRESPONDENCE DATA											
<p>Fax Number: 7147558290  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>          Email: IPDOCKET@LW.COM, KRISTIN.AZCONA@LW.COM          Correspondent Name: LATHAM &amp; WATKINS LLP          Address Line 1: 650 TOWN CENTER DRIVE, 20TH FLOOR          Address Line 4: COSTA MESA, CALIFORNIA 92626</p>											
ATTORNEY DOCKET NUMBER:	038263-0263										
NAME OF SUBMITTER:	KRISTIN J AZCONA										
<p>Total Attachments: 23          source=Kuiper - First Lien Patent Security Agreement#page1.tif          source=Kuiper - First Lien Patent Security Agreement#page2.tif          source=Kuiper - First Lien Patent Security Agreement#page3.tif          source=Kuiper - First Lien Patent Security Agreement#page4.tif</p>											

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## FIRST LIEN PATENT SECURITY AGREEMENT

**FIRST LIEN PATENT SECURITY AGREEMENT**, dated as of December 21, 2012 (this "Agreement"), among RP CROWN HOLDING, LLC ("Holdings"), RP CROWN PARENT, LLC (the "Borrower"), the subsidiaries of the Borrower party hereto and CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH, as Administrative Agent (the "Administrative Agent").

Reference is made to the First Lien Guarantee and Collateral Agreement dated as of December 21, 2012 (as amended, supplemented or otherwise modified from time to time, the "Security Agreement"), among Holdings, the Borrower, the Subsidiaries of the Borrower (as identified therein) and the Administrative Agent. The Lenders have agreed to extend credit to the Borrower subject to the terms and conditions set forth in the First Lien Credit Agreement dated as of December 14, 2012 (as amended, supplemented or otherwise modified from time to time, the "Credit Agreement") among Holdings, the Borrower, the Lenders party thereto and Credit Suisse AG, Cayman Islands Branch, as Administrative Agent. The obligations of the Lenders to extend such credit are conditioned upon, among other things, the execution and delivery of this Agreement. Holdings and the Subsidiary Parties are affiliates of the Borrower, will derive substantial benefits from the extension of credit to the Borrower pursuant to the Credit Agreement and are willing to execute and deliver this Agreement in order to induce the Lenders to extend such credit. Accordingly, the parties hereto agree as follows:

SECTION 1. Terms. Capitalized terms used in this Agreement and not otherwise defined herein have the meanings specified in the Security Agreement. The rules of construction specified in Section 1.01(b) of the Security Agreement also apply to this Agreement.

SECTION 2. Grant of Security Interest. As security for the payment or performance, as the case may be, in full of the Obligations, each Grantor, pursuant to the Security Agreement, did and hereby does grant to the Administrative Agent, its successors and assigns, for the ratable benefit of the Secured Parties, a security interest in each Grantor's right, title or interest in or to any and all of the following assets and properties now owned or at any time hereafter acquired by such Grantor or in which such Grantor now has or at any time in the future may acquire any right, title or interest (collectively, the "Patent Collateral"):

- (a) all letters patent of the United States or the equivalent thereof in any other country, all registrations and recordings thereof, and all applications for letters patent of the United States or the equivalent thereof in any other country, including registrations, recordings and pending applications in the United States Patent and Trademark Office or any similar offices in any other country, including

those listed on Schedule I, and all reissues, continuations, divisions, continuations-in-part, renewals or extensions thereof, and the inventions disclosed or claimed therein, including the right to make, use and/or sell the inventions disclosed or claimed therein (collectively, "Patents"); and

(b) all Contractual Obligations providing for the grant of any right to or under any Patents, including those listed on Schedule I.

SECTION 3. Security Agreement. The security interests granted to the Administrative Agent herein are granted in furtherance, and not in limitation of, the security interests granted to the Administrative Agent pursuant to the Security Agreement. Each Grantor hereby acknowledges and affirms that the rights and remedies of the Administrative Agent with respect to the Patent Collateral are more fully set forth in the Security Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the Security Agreement, the terms of the Security Agreement shall govern (and for the avoidance of doubt, Excluded Assets shall not be part of the Patent Collateral).

SECTION 4. Applicable Law. This Agreement shall be construed in accordance with and governed by the law of the State of New York.

SECTION 5. Counterparts. This Agreement may be executed in counterparts, each of which shall constitute an original but all of which when taken together shall constitute a single contract.

[Signature Pages Follow]

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

RP CROWN PARENT, LLC

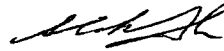
By:



Name: Alok Singh  
Title: President

RP CROWN HOLDING, LLC

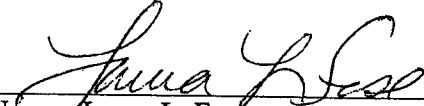
By:



Name: Alok Singh  
Title: Prsident

REDPRAIRIE CORPORATION

By:

  
\_\_\_\_\_

Name: Laura L. Fese  
Title: Executive Vice President, Chief  
Legal Officer, & Corporate Secretary

WESELEY SOFTWARE DEVELOPMENT  
CORP.


By:

  
\_\_\_\_\_

Name: Laura L. Fese  
Title: Vice President & Corporate  
Secretary

REDPRAIRIE SERVICES CORPORATION


By:

  
\_\_\_\_\_

Name: Laura L. Fese  
Title: Corporate Secretary

MULTI-CHANNEL HOLDINGS, INC.


By:

  
\_\_\_\_\_

Name: Laura L. Fese  
Title: Vice President & Secretary

MULTI-CHANNEL INTERMEDIATE  
HOLDINGS, INC.


By:

  
\_\_\_\_\_

Name: Laura L. Fese  
Title: Vice President & Secretary

ESCALATE, INC.

By:

  
\_\_\_\_\_

Name: Laura L. Fese  
Title: Corporate Secretary

JDA SOFTWARE GROUP, INC.

By: 

Name: Hamish Brewer  
Title: CHIEF EXECUTIVE OFFICER

JDA SOFTWARE, INC.

By: 

Name: Hamish Brewer  
Title: CHIEF EXECUTIVE OFFICER

JDA WORLDWIDE, INC.

By: 

Name: Hamish Brewer  
Title: CHIEF EXECUTIVE OFFICER

JDA SOFTWARE SERVICES, INC.

By: 

Name: Hamish Brewer  
Title: CHIEF EXECUTIVE OFFICER

MANUGISTICS SERVICES, INC.

By: 

Name: Hamish Brewer  
Title: CHIEF EXECUTIVE OFFICER

MANUGISTICS HOLDINGS  
DELAWARE II, INC.

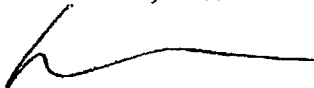
By: 

Name: Hamish Brewer  
Title: CHIEF EXECUTIVE OFFICER

[Signature Page to First Lien Patent Security Agreement]

PATENT  
REEL: 029548 FRAME: 0714

I2 TECHNOLOGIES, INC.

By: 

Name: Hamish Brewer  
Title: CHIEF EXECUTIVE OFFICER

I2 TECHNOLOGIES INTERNATIONAL  
SERVICES, LLC

By: 

Name: Hamish Brewer  
Title: CHIEF EXECUTIVE OFFICER

JDA SOFTWARE RUSSIA HOLDINGS,  
INC.

By: 

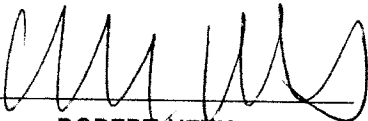
Name: Hamish Brewer  
Title: CHIEF EXECUTIVE OFFICER


*[Signature Page to First Lien Patent Security Agreement]*

PATENT  
REEL: 029548 FRAME: 0715



CREDIT SUISSE AG, CAYMAN ISLANDS  
BRANCH, as Administrative Agent

By:   
Name: ROBERT HETU  
Title: MANAGING DIRECTOR

By:   
Name: KEVIN BUDDHEW  
Title: ASSOCIATE

*[Signature Page to First Lien Patent Security Agreement]*

**PATENT**  
**REEL: 029548 FRAME: 0716**

PATENTS

Registrant (or Last Registered Owner)	US Patent No.	Patent Application No.	Patent Publication No.	Filing Date
JDA Software Group, Inc.	8,249,952	10/845,985	US 2005-0222921 A1	5/14/2004
JDA Software Group, Inc.	8,244,601	11/545,308	US 2007-0055587 A1	10/10/2006
JDA Software Group, Inc.	8,239,426	11/877,857	US 2008-0281824 A1	10/24/2007
JDA Software Group, Inc.	8,214,250	11/634,056	US 2007-0136126 A1	12/5/2006
JDA Software Group, Inc.	8,204,922	11/927,312	US 2008-0052316 A1	10/29/2007
JDA Software Group, Inc.	8,140,345	11/773,901	US 2008-0015996 A1	7/5/2007
JDA Software Group, Inc.	8,135,630	11/185,169	US 2005-0256787 A1	7/20/2005
JDA Software Group, Inc.	8,126,775	10/053,935		1/24/2002
JDA Software Group, Inc.	8,117,327	10/611,560	US 2004-0225745 A1	6/30/2003
JDA Software Group, Inc.	8,117,326	10/611,276	US 2004-0225763 A1	6/30/2003
JDA Software Group, Inc.	8,117,059	10/224,240	-	8/19/2002
JDA Software Group, Inc.	8,108,534	10/611,779	US 2004-0225671 A1	6/30/2003
JDA Software Group, Inc.	8,090,630	10/846,320	US 2005-0222887 A1	5/14/2004
JDA Software Group, Inc.	8,090,614	11/876,984	US 2008-0040204 A1	10/23/2007
JDA Software Group, Inc.	8,086,643	09/895,654	-	6/28/2001
JDA Software Group, Inc.	8,055,369	12/684,856	US 2010-0114669 A1	1/8/2010
JDA Software Group, Inc.	8,015,104	12/780,573	US 2011-0125670 A1	5/14/2010
JDA Software Group, Inc.	8,005,751	12/780,620	US 2011-0125625 A1	5/14/2010
JDA Software Group, Inc.	8,005,699	11/779,126	US 2008-0015915 A1	7/17/2007
JDA Software Group, Inc.	7,966,211	10/836,448	US 2004-0243460 A1	4/29/2004
JDA Software Group, Inc.	7,953,656	12/507,179	US2009-0281917 A1	7/22/2009
JDA Software Group, Inc.	7,949,598	12/507,669	US2009-0281919 A1	7/22/2009

Registrant (or Last Registered Owner)	US Patent No.	Patent Application No.	Patent Publication No.	Filing Date
JDA Software Group, Inc.	7,941,331	10/836,042	US 2004-0230474 A1	4/29/2004
JDA Software Group, Inc.	7,937,282	12/115,016	US 2008-0208678 A1	5/5/2008
JDA Software Group, Inc.	7,937,280	10/011,572	-	11/12/2001
JDA Software Group, Inc.	7,933,793	12/842,835	US 2010-0287021 A1	7/23/2010
JDA Software Group, Inc.	7,933,673	12/503,319	US2009-0276275 A1	7/15/2009
JDA Software Group, Inc.	7,921,027	12/842,813	US 2010-0287020 A1	7/23/2010
JDA Software Group, Inc.	7,917,379	09/963,960	-	9/25/2001
JDA Software Group, Inc.	7,905,393	11/876,941	US 2008-0059333 A1	10/23/2007
JDA Software Group, Inc.	7,895,090	11/875,159	US 2008-0046346 A1	10/19/2007
JDA Software Group, Inc.	7,886,960	12/406,410	US2009-0177516 A1	3/18/2009
JDA Software Group, Inc.	7,881,985	09/791,481	US 2001-0034673 A1	2/22/2001
JDA Software Group, Inc.	7,860,737	10/428,006	US 2004-0128176 A1	5/2/2003
JDA Software Group, Inc.	7,856,371	12/186,904	US 2008-0294381 A1	8/6/2008
JDA Software Group, Inc.	7,853,505	12/507,464	US2009-0281918 A1	7/22/2009
JDA Software Group, Inc.	7,853,462	10/836,135	US 2004-0230475 A1	4/29/2004
JDA Software Group, Inc.	7,848,946	11/033,487	US 2005-0256759 A1	1/12/2005
JDA Software Group, Inc.	7,827,049	10/836,002	US 2004-0230473 A1	4/29/2004
JDA Software Group, Inc.	7,818,243	09/976,750	-	10/12/2001
JDA Software Group, Inc.	7,809,672	09/895,525	-	6/28/2001
JDA Software Group, Inc.	7,788,145	11/877,087	US 2008-0040245 A1	10/23/2007
JDA Software Group, Inc.	7,788,119	10/841,003	US 2005-0004831 A1	5/7/2004
JDA Software Group, Inc.	7,774,265	11/876,364	US 2008-0040289 A1	10/22/2007
JDA Software Group, Inc.	7,765,185	10/847,009	US 2004-0215655 A1	5/17/2004

<b>Registrant (or Last Registered Owner)</b>	<b>US Patent No.</b>	<b>Patent Application No.</b>	<b>Patent Publication No.</b>	<b>Filing Date</b>
JDA Software Group, Inc.	7,761,903	12/403,834	US2009-0177512 A1	3/13/2009
JDA Software Group, Inc.	7,752,246	12/631,828	US 2010-0082460 A1	12/5/2009
JDA Software Group, Inc.	7,752,245	12/631,825	US 2010-0088200 A1	12/5/2009
JDA Software Group, Inc.	7,752,244	11/875,270	US 2008-0052204 A1	10/19/2007
JDA Software Group, Inc.	7,747,481	11/751,348	US 2007-0214067 A1	5/21/2007
JDA Software Group, Inc.	7,739,222	11/174,931	US 2006-0041526 A1	7/5/2005
JDA Software Group, Inc.	7,734,617	11/760,229	US 2007-0233621 A1	6/8/2007
JDA Software Group, Inc.	7,725,429	10/847,037	US 2004-0225677 A1	5/17/2004
JDA Software Group, Inc.	7,721,959	10/894,248	US 2006-0015415 A1	7/19/2004
JDA Software Group, Inc.	7,720,748	11/691,973	US 2007-0288345 A1	3/27/2007
JDA Software Group, Inc.	7,720,747	11/691,957	US 2007-0288344 A1	3/27/2007
JDA Software Group, Inc.	7,712,072	12/414,113	US2009-0182649 A1	3/30/2009
JDA Software Group, Inc.	7,711,597	12/414,085	US2009-0198598 A1	3/30/2009
JDA Software Group, Inc.	7,711,593	10/691,320	US 2005-0091070 A1	10/22/2003
JDA Software Group, Inc.	7,702,562	09/970,371	-	10/2/2001
JDA Software Group, Inc.	7,698,240	09/686,711	-	10/10/2000
JDA Software Group, Inc.	7,685,113	11/875,403	US 2008-0040186 A1	10/19/2007
JDA Software Group, Inc.	7,685,015	12/031,975	US 2008-0147490 A1	2/15/2008
JDA Software Group, Inc.	7,672,867	11/876,210	US 2008-0046309 A1	10/22/2007
JDA Software Group, Inc.	7,672,862	10/004,725	-	12/4/2001
JDA Software Group, Inc.	7,668,761	09/984,349	US 2002-0188499 A1	10/29/2001
JDA Software Group, Inc.	7,660,741	10/378,802	US 2003-0167215 A1	3/3/2003
JDA Software Group, Inc.	7,660,736	11/524,153	US 2007-0078790 A1	9/20/2006

<b>Registrant (or Last Registered Owner)</b>	<b>US Patent No.</b>	<b>Patent Application No.</b>	<b>Patent Publication No.</b>	<b>Filing Date</b>
JDA Software Group, Inc.	7,650,334	11/928,646	US 2008-0059335 A1	10/30/2007
JDA Software Group, Inc.	7,650,305	09/970,052	-	10/3/2001
JDA Software Group, Inc.	7,647,311	11/834,152	US 2007-0276819 A1	8/6/2007
JDA Software Group, Inc.	7,640,180	10/103,384	-	3/19/2002
JDA Software Group, Inc.	7,639,256	09/680,603	-	10/8/2000
JDA Software Group, Inc.	7,620,575	09/945,297	-	8/31/2001
JDA Software Group, Inc.	7,620,566	09/978,926	US 2004-0172322 A1	10/16/2001
JDA Software Group, Inc.	7,620,561	10/223,845	-	8/19/2002
JDA Software Group, Inc.	7,603,290	09/970,256	-	10/3/2001
JDA Software Group, Inc.	7,594,601	11/767,699	US 2008-0040183 A1	6/25/2007
JDA Software Group, Inc.	7,590,558	09/745,978	US 2002-0082932 A1	12/22/2000
JDA Software Group, Inc.	7,590,555	10/823,056	US 2004-0193500 A1	4/13/2004
JDA Software Group, Inc.	7,580,825	11/875,115	US 2008-0040185 A1	10/19/2007
JDA Software Group, Inc.	7,577,554	11/120,588	US 2005-0192783 A1	5/3/2005
JDA Software Group, Inc.	7,574,383	10/120,571	-	4/10/2002
JDA Software Group, Inc.	7,562,812	11/696,297	US 2007-0185760 A1	4/4/2007
JDA Software Group, Inc.	7,562,044	09/945,296	-	8/31/2001
JDA Software Group, Inc.	7,555,447	11/099,859	US 2005-0197926 A1	4/6/2005
JDA Software Group, Inc.	7,552,095	11/875,548	US 2008-0040293 A1	10/19/2007
JDA Software Group, Inc.	7,539,630	10/287,775	US 2003-0126023 A1	11/5/2002
JDA Software Group, Inc.	7,529,688	09/957,831	US 2002-0143677 A1	9/21/2001
JDA Software Group, Inc.	7,523,483	10/836,041	US 2004-0230829 A1	4/29/2004
JDA Software Group, Inc.	7,523,060	09/750,617	-	12/20/2000

<b>Registrant (or Last Registered Owner)</b>	<b>US Patent No.</b>	<b>Patent Application No.</b>	<b>Patent Publication No.</b>	<b>Filing Date</b>
JDA Software Group, Inc.	7,502,757	09/820,370	US 2001-0047323 A1	3/11/2001
JDA Software Group, Inc.	7,475,030	09/859,266	-	5/16/2001
JDA Software Group, Inc.	7,440,911	10/153,844	-	5/21/2002
JDA Software Group, Inc.	7,412,424	10/103,383	-	3/19/2002
JDA Software Group, Inc.	7,412,404	10/032,903	-	10/19/2001
JDA Software Group, Inc.	7,403,975	10/704,141	US 2004-0205074 A1	11/10/2003
JDA Software Group, Inc.	7,386,475	09/940,764	US 2004-0187091 A1	8/27/2001
JDA Software Group, Inc.	7,386,459	10/059,645	US 2005-0004804 A1	1/28/2002
JDA Software Group, Inc.	7,383,240	10/308,333	US 2003-0158766 A1	12/2/2002
JDA Software Group, Inc.	7,379,898	09/745,979	US 2002-0082849 A1	12/22/2000
JDA Software Group, Inc.	7,376,600	10/119,990	-	4/10/2002
JDA Software Group, Inc.	7,376,578	09/195,332	-	11/18/1998
JDA Software Group, Inc.	7,373,323	09/548,466	-	4/13/2000
JDA Software Group, Inc.	7,370,009	09/841,320	-	4/23/2001
JDA Software Group, Inc.	7,359,865	09/992,283	-	11/5/2001
JDA Software Group, Inc.	7,349,945	09/534,915	-	3/23/2000
JDA Software Group, Inc.	7,349,868	09/858,322	US 2002-0174022 A1	5/15/2001
JDA Software Group, Inc.	7,349,861	09/941,960	-	8/28/2001
JDA Software Group, Inc.	7,346,560	09/895,489	-	6/29/2001
JDA Software Group, Inc.	7,343,355	10/279,182	US 2003-0177103 A1	10/23/2002
JDA Software Group, Inc.	7,343,311	10/090,342	US 2004-0153376 A1	3/1/2002
JDA Software Group, Inc.	7,337,031	10/032,971	-	10/25/2001
JDA Software Group, Inc.	7,330,829	09/892,300	-	6/26/2001

<b>Registrant (or Last Registered Owner)</b>	<b>US Patent No.</b>	<b>Patent Application No.</b>	<b>Patent Publication No.</b>	<b>Filing Date</b>
JDA Software Group, Inc.	7,324,983	10/035,712	-	11/8/2001
JDA Software Group, Inc.	7,324,955	10/103,342	-	3/19/2002
JDA Software Group, Inc.	7,310,646	10/840,928	US 2005-0021541 A1	5/7/2004
JDA Software Group, Inc.	7,299,255	09/745,374	US 2002-0082945 A1	12/22/2000
JDA Software Group, Inc.	7,287,000	10/721,743	US 2005-0256778 A1	11/26/2003
JDA Software Group, Inc.	7,277,863	09/592,775	-	6/13/2000
JDA Software Group, Inc.	7,277,862	10/223,925	-	8/19/2002
JDA Software Group, Inc.	7,266,549	10/940,851	US 2005-0038780 A1	9/14/2004
JDA Software Group, Inc.	7,263,515	09/884,007	-	6/18/2001
JDA Software Group, Inc.	7,260,550	09/398,170	-	9/17/1999
JDA Software Group, Inc.	7,257,541	09/415,052	-	10/8/1999
JDA Software Group, Inc.	7,251,614	10/139,102	-	5/2/2002
JDA Software Group, Inc.	7,249,044	09/972,383	US 2002-0042756 A1	10/4/2001
JDA Software Group, Inc.	7,248,937	09/895,487	-	6/29/2001
JDA Software Group, Inc.	7,225,146	10/032,945	US 2003-0061060 A1	9/27/2001
JDA Software Group, Inc.	7,216,142	09/930,673	US 2002-0038340 A1	8/14/2001
JDA Software Group, Inc.	7,213,232	10/163,782	-	6/6/2002
JDA Software Group, Inc.	7,213,037	10/755,437	US 2004-0177075 A1	1/12/2004
JDA Software Group, Inc.	7,210,624	10/033,103	-	10/25/2001
JDA Software Group, Inc.	7,197,473	11/319,929	US 2006-0106669 A1	12/27/2005
JDA Software Group, Inc.	7,177,827	09/925,149	-	8/8/2001
JDA Software Group, Inc.	7,162,453	09/895,894	-	6/29/2001
JDA Software Group, Inc.	7,149,744	10/001,506	-	10/23/2001

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JDA Software Group, Inc.	7,139,719	09/684,076	-	10/8/2000
JDA Software Group, Inc.	7,133,848	09/859,674	US 2002-0116348 A1	5/18/2001
JDA Software Group, Inc.	7,130,809	09/684,075	-	10/8/2000
JDA Software Group, Inc.	7,127,458	10/175,562	-	6/17/2002
JDA Software Group, Inc.	7,127,416	09/884,393	-	6/18/2001
JDA Software Group, Inc.	7,117,164	09/771,207	US 2002-0103686 A1	1/26/2001
JDA Software Group, Inc.	7,117,163	09/594,652	-	6/15/2000
JDA Software Group, Inc.	7,110,960	09/876,218	US 2002-0120492 A1	6/8/2001
JDA Software Group, Inc.	7,093,233	10/121,241	-	4/11/2002
JDA Software Group, Inc.	7,089,330	09/675,780	-	9/28/2000
JDA Software Group, Inc.	7,089,196	09/832,576	US 2002-0178092 A1	4/11/2001
JDA Software Group, Inc.	7,086,062	09/686,447	-	10/10/2000
JDA Software Group, Inc.	7,085,729	09/504,247	-	2/15/2000
JDA Software Group, Inc.	7,080,026	09/984,347	US 2002-0169657 A1	10/29/2001
JDA Software Group, Inc.	7,073,164	10/164,516	-	6/6/2002
JDA Software Group, Inc.	7,072,848	09/987,706	US 2002-0123930 A1	11/15/2001
JDA Software Group, Inc.	7,065,499	09/949,378	-	9/7/2001
JDA Software Group, Inc.	7,062,542	09/834,802	-	4/12/2001
JDA Software Group, Inc.	7,062,540	09/755,751	US 2002-0091753 A1	1/5/2001
JDA Software Group, Inc.	7,058,587	10/057,983	-	1/29/2002
JDA Software Group, Inc.	7,055,137	09/998,363	US 2003-0098879 A1	11/29/2001
JDA Software Group, Inc.	7,054,841	09/999,524	-	10/23/2001
JDA Software Group, Inc.	7,050,874	09/976,791	-	10/12/2001



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JDA Software Group, Inc.	7,043,444	09/834,836	US 2002-0152104 A1	4/13/2001
JDA Software Group, Inc.	7,039,833	10/274,761	US 2004-0078689 A1	10/21/2002
JDA Software Group, Inc.	7,039,602	09/333,894	-	6/14/1999
JDA Software Group, Inc.	7,039,597	09/156,334	-	9/18/1998
JDA Software Group, Inc.	7,039,562	10/028,480	-	12/19/2001
JDA Software Group, Inc.	7,031,955	09/844,847	-	4/27/2001
JDA Software Group, Inc.	7,028,000	09/829,476	-	4/9/2001
JDA Software Group, Inc.	7,024,371	09/835,003	US 2002-0152103 A1	4/13/2001
JDA Software Group, Inc.	7,024,265	11/024,299	US 2005-0113954 A1	12/28/2004
JDA Software Group, Inc.	7,013,485	09/800,168	US 2001-0047485 A1	3/5/2001
JDA Software Group, Inc.	7,003,729	09/551,899	-	4/19/2000
JDA Software Group, Inc.	6,988,111	09/998,459	US 2003-0101168 A1	11/29/2001
JDA Software Group, Inc.	6,988,104	09/825,083	US 2002-0178167 A1	4/2/2001
JDA Software Group, Inc.	6,983,421	10/086,757	-	2/28/2002
JDA Software Group, Inc.	6,983,276	09/858,269	US 2002-0174089 A1	5/15/2001
JDA Software Group, Inc.	6,980,966	09/842,297	-	4/25/2001
JDA Software Group, Inc.	6,980,885	09/962,663	US 2003-0060924 A1	9/24/2001
JDA Software Group, Inc.	6,973,626	10/086,761	-	2/28/2002
JDA Software Group, Inc.	6,963,854	09/517,983	-	3/3/2000
JDA Software Group, Inc.	6,963,849	09/953,462	-	9/14/2001
JDA Software Group, Inc.	6,963,847	09/398,171	-	9/17/1999
JDA Software Group, Inc.	6,957,234	09/580,327	-	5/26/2000
JDA Software Group, Inc.	6,947,982	09/686,470	-	10/11/2000

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JDA Software Group, Inc.	6,947,905	09/397,423	-	9/17/1999
JDA Software Group, Inc.	6,944,598	09/397,818	-	9/17/1999
JDA Software Group, Inc.	6,922,675	09/679,464	-	10/4/2000
JDA Software Group, Inc.	6,920,476	09/800,169	US 2001-0047390 A1	3/5/2001
JDA Software Group, Inc.	6,898,593	10/072,399	-	2/5/2002
JDA Software Group, Inc.	6,898,472	10/287,788	US 2003-0177050 A1	11/5/2002
JDA Software Group, Inc.	6,895,550	10/008,898	US 2003-0106017 A1	12/5/2001
JDA Software Group, Inc.	6,895,384	09/415,507	-	10/8/1999
JDA Software Group, Inc.	6,885,902	10/287,805	US 2003-0126024 A1	11/5/2002
JDA Software Group, Inc.	6,874,008	09/686,731	-	10/10/2000
JDA Software Group, Inc.	6,873,994	09/944,908	US 2003-0093284 A1	8/31/2001
JDA Software Group, Inc.	6,868,299	10/414,892	US 2004-0210335 A1	4/15/2003
JDA Software Group, Inc.	6,857,017	09/686,442	-	10/10/2000
JDA Software Group, Inc.	6,845,499	09/773,685	US 2003-0018951 A1	1/31/2001
JDA Software Group, Inc.	6,839,711	09/652,520	-	8/31/2000
JDA Software Group, Inc.	6,836,689	10/704,080	US 2004-0098155 A1	11/6/2003
JDA Software Group, Inc.	6,826,538	09/362,776	-	7/28/1999
JDA Software Group, Inc.	6,789,252	09/550,407	-	4/14/2000
JDA Software Group, Inc.	6,785,689	10/008,733	-	12/5/2001
JDA Software Group, Inc.	6,778,991	10/037,695	US 2003-0059030 A1	10/19/2001
JDA Software Group, Inc.	6,731,998	10/393,793	US 2003-0167098 A1	3/20/2003
JDA Software	6,708,174	09/742,851	-	12/20/2000

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Group, Inc.				
JDA Software Group, Inc.	6,708,161	09/745,980	US 2002-0083048 A1	12/22/2000
JDA Software Group, Inc.	6,658,413	09/653,107	-	8/31/2000
JDA Software Group, Inc.	6,591,153	09/974,801	US 2002-0107600 A1	10/12/2001
JDA Software Group, Inc.	6,574,619	09/535,905	-	3/24/2000
JDA Software Group, Inc.	6,567,783	09/156,264	-	9/18/1998
JDA Software Group, Inc.	6,560,502	09/895,528	-	6/28/2001
JDA Software Group, Inc.	6,560,501	09/520,669	-	3/7/2000
JDA Software Group, Inc.	6,490,566	09/305,580	-	5/5/1999
JDA Software Group, Inc.	6,486,899	09/397,473	-	9/17/1999
JDA Software Group, Inc.	6,462,736	09/494,162	-	1/25/2000
JDA Software Group, Inc.	6,456,996	09/325,937	-	6/4/1999
JDA Software Group, Inc.	6,442,554	09/241,361	-	1/29/1999
JDA Software Group, Inc.	6,442,528	09/156,434	-	9/18/1998
JDA Software Group, Inc.	6,415,196	09/143,545	-	8/28/1998
JDA Software Group, Inc.	6,397,192	09/156,333	-	9/18/1998
JDA Software Group, Inc.	6,397,191	09/154,661	-	9/18/1998
JDA Software Group, Inc.	6,374,252	08/951,714	-	10/16/1997
JDA Software Group, Inc.	6,374,249	09/371,821	-	8/11/1999
JDA Software Group, Inc.	6,374,227	09/292,528	-	4/15/1999
JDA Software Group, Inc.	6,370,509	09/282,912	-	3/31/1999
JDA Software Group, Inc.	6,366,922	09/409,069	-	9/30/1999

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JDA Software Group, Inc.	6,336,097	09/346,203	-	7/1/1999
JDA Software Group, Inc.	6,334,146	09/156,265	-	9/18/1998
JDA Software Group, Inc.	6,332,155	09/631,367	-	8/2/2000
JDA Software Group, Inc.	6,332,130	09/411,069	-	10/4/1999
JDA Software Group, Inc.	6,321,230	09/408,336	-	9/29/1999
JDA Software Group, Inc.	6,321,207	09/292,644	-	4/15/1999
JDA Software Group, Inc.	6,289,385	09/156,722	-	9/18/1998
JDA Software Group, Inc.	6,289,384	09/156,342	-	9/18/1998
JDA Software Group, Inc.	6,266,655	09/359,175	-	7/22/1999
JDA Software Group, Inc.	6,233,572	09/322,430	-	5/28/1999
JDA Software Group, Inc.	6,233,493	09/154,373	-	9/16/1998
JDA Software Group, Inc.	6,222,533	08/918,222	-	8/25/1997
JDA Software Group, Inc.	6,199,059	09/063,680	-	4/22/1998
JDA Software Group, Inc.	6,188,989	08/491,167	-	6/16/1995
JDA Software Group, Inc.	6,169,992	08/747,164	-	11/8/1996
JDA Software Group, Inc.	6,167,380	08/802,434	-	2/18/1997
JDA Software Group, Inc.	6,119,149	09/092,348	-	6/5/1998
JDA Software Group, Inc.	6,055,533	08/806,222	-	2/25/1997
JDA Software Group, Inc.	6,055,519	08/947,544	-	10/11/1997
JDA Software Group, Inc.	6,047,290	09/026,752	-	2/20/1998
JDA Software Group, Inc.	6,031,984	09/036,903	-	3/9/1998
JDA Software Group, Inc.	5,995,945	08/917,151	-	8/25/1997
JDA Software Group, Inc.	5,983,194	08/805,683	-	2/25/1997

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JDA Software Group, Inc.	5,974,395	08/697,261	-	8/21/1996
JDA Software Group, Inc.	5,943,244	08/800,717	-	2/17/1997
JDA Software Group, Inc.	5,937,155	09/059,223	-	4/13/1998
JDA Software Group, Inc.	5,931,900	08/918,227	-	8/25/1997
JDA Software Group, Inc.	5,930,156	09/057,036	-	4/8/1998
JDA Software Group, Inc.	5,918,209	08/585,637	-	1/11/1996
JDA Software Group, Inc.	5,845,258	08/491,168	-	6/16/1995
JDA Software Group, Inc.	5,838,965	08/339,481	-	11/10/1994
JDA Software Group, Inc.	5,835,910	08/526,555	-	9/12/1995
JDA Software Group, Inc.	5,832,532	08/491,121	-	6/16/1995
JDA Software Group, Inc.	5,778,356	08/745,255	-	11/8/1996
JDA Software Group, Inc.	5,764,543	08/491,153	-	6/16/1995
JDA Software Group, Inc.	5,742,813	08/527,161	-	9/12/1995
JDA Software Group, Inc.	5,630,123	08/314,073	-	9/28/1994
RedPrairie Corporation	5,497,141	08/241,494		05/12/1994
RedPrairie Corporation	6,854,010	09/888,666		06/25/2001
Escalate, Inc.	6,404,445			12/30/99

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JDA Software Group, Inc.	13/657,129	-	10/22/2012
JDA Software Group, Inc.	13/533,104	-	6/26/2012
JDA Software Group, Inc.	13/357,915	-	1/25/2012
JDA Software	13/327,743	-	12/15/2011

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Group, Inc.			
JDA Software Group, Inc.	13/327,718	-	12/15/2011
JDA Software Group, Inc.	13/327,567	-	12/15/2011
JDA Software Group, Inc.	13/313,959	-	12/7/2011
JDA Software Group, Inc.	13/264,576	-	1/9/2012
JDA Software Group, Inc.	13/163,687	-	6/18/2011
JDA Software Group, Inc.	13/103,853	US 2011-0208560 A1	5/9/2011
JDA Software Group, Inc.	13/093,512	-	4/25/2011
JDA Software Group, Inc.	13/087,141	-	4/14/2011
JDA Software Group, Inc.	13/021,280	US 2011-0125470 A1	2/4/2011
JDA Software Group, Inc.	13/012,175	-	1/24/2011
JDA Software Group, Inc.	12/947,323	US 2011-0066461 A1	11/16/2010
JDA Software Group, Inc.	12/860,683	-	8/20/2010
JDA Software Group, Inc.	12/825,045	US 2011-0161189 A1	6/28/2010
JDA Software Group, Inc.	12/774,202	-	5/5/2010
JDA Software Group, Inc.	12/758,303	US 2010-0262520 A1	4/12/2010
JDA Software Group, Inc.	12/689,345	US 2011-0106839 A1	1/19/2010
JDA Software Group, Inc.	12/619,805	US 2010-0125489 A1	11/17/2009
JDA Software Group, Inc.	12/612,114	US 2010-0121683 A1	11/4/2009
JDA Software Group, Inc.	12/610,548	US 2010-0114640 A1	11/2/2009
JDA Software Group, Inc.	12/607,043	US 2010-0114667 A1	10/27/2009
JDA Software Group, Inc.	12/569,813	US 2010-0250306 A1	9/29/2009
JDA Software Group, Inc.	12/565,415	US 2010-0082138 A1	9/23/2009

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JDA Software Group, Inc.	12/565,348	US 2010-0083160 A1	9/23/2009
JDA Software Group, Inc.	12/427,897	US2009-0271236 A1	4/22/2009
JDA Software, Inc.	12/409,180	US2009-0254583 A1	3/23/2009
JDA Software Group, Inc.	12/402,099	US2009-0171856 A1	3/11/2009
JDA Software Group, Inc.	12/108,947	US 2008-0275795 A1	4/24/2008
JDA Software Group, Inc.	12/102,247	US 2008-0256258 A1	4/14/2008
JDA Software Group, Inc.	12/056,555	US 2008-0243884 A1	3/27/2008
JDA Software Group, Inc.	12/055,100	US 2008-0243883 A1	3/25/2008
JDA Software Group, Inc.	12/043,240	US 2008-0221953 A1	3/6/2008
JDA Software Group, Inc.	12/021,103	US 2008-0243570 A1	1/28/2008
JDA Software Group, Inc.	12/021,088	US 2008-0221960 A1	1/28/2008
JDA Software Group, Inc.	11/941,493	US 2008-0065443 A1	11/16/2007
JDA Software Group, Inc.	11/931,717	US 2008-0052149 A1	10/31/2007
JDA Software Group, Inc.	11/927,269	US 2008-0052311 A1	10/29/2007
JDA Software Group, Inc.	11/927,209	US 2008-0052310 A1	10/29/2007
JDA Software Group, Inc.	11/877,825	US 2008-0046273 A1	10/24/2007
JDA Software Group, Inc.	11/877,252	US 2008-0040382 A1	10/23/2007
JDA Software Group, Inc.	11/876,483	US 2008-0040499 A1	10/22/2007
JDA Software Group, Inc.	11/876,120	US 2008-0040294 A1	10/22/2007
JDA Software Group, Inc.	11/876,089	US 2008-0040203 A1	10/22/2007
JDA Software Group, Inc.	11/875,209	US 2008-0040202 A1	10/19/2007
JDA Software Group, Inc.	11/872,940	US 2008-0133380 A1	10/16/2007
JDA Software Group, Inc.	11/872,464	-	10/15/2007

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JDA Software Group, Inc.	11/697,966	US 2007-0192361 A1	4/9/2007
JDA Software Group, Inc.	11/697,816	US 2007-0192256 A1	4/9/2007
JDA Software Group, Inc.	11/604,500	US 2007-0073598 A1	11/27/2006
JDA Software Group, Inc.	11/474,317	US 2008-0010357 A1	6/23/2006
JDA Software Group, Inc.	11/444,314	US 2007-0143171 A1	6/1/2006
JDA Software Group, Inc.	11/429,328	US 2007-0288296 A1	5/5/2006
JDA Software Group, Inc.	11/384,640	US 2006-0161504 A1	3/20/2006
JDA Software Group, Inc.	11/371,985	US 2006-0206411 A1	3/8/2006
JDA Software Group, Inc.	11/371,960	US 2006-0206410 A1	3/8/2006
JDA Software Group, Inc.	11/218,876	US 2006-0004617 A1	9/2/2005
JDA Software Group, Inc.	11/158,371	US 2006-0206406 A1	6/20/2005
JDA Software Group, Inc.	11/109,346	US 2005-0187805 A1	4/19/2005
JDA Software Group, Inc.	11/105,109	US 2005-0177498 A1	4/13/2005
JDA Software Group, Inc.	10/847,422	US 2004-0215662 A1	5/17/2004
JDA Software Group, Inc.	10/846,104	US 2005-0228706 A1	5/14/2004
JDA Software Group, Inc.	10/739,979	US 2004-0133504 A1	12/17/2003
JDA Software Group, Inc.	10/672,537	US 2005-0071220 A1	9/26/2003
JDA Software Group, Inc.	10/428,991	US 2003-0208424 A1	5/1/2003
JDA Software Group, Inc.	10/315,282	US 2003-0110066 A1	12/9/2002
JDA Software Group, Inc.	10/175,488	-	6/19/2002
JDA Software Group, Inc.	10/165,640	-	6/7/2002
JDA Software Group, Inc.	10/108,939	-	3/27/2002
JDA Software Group, Inc.	10/080,368	-	2/21/2002



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JDA Software Group, Inc.	10/051,826	-	1/16/2002
JDA Software Group, Inc.	09/971,718	-	10/4/2001
JDA Software Group, Inc.	09/956,439	-	9/18/2001
JDA Software Group, Inc.	09/944,735	-	8/31/2001
JDA Software Group, Inc.	09/896,388	-	6/28/2001
JDA Software Group, Inc.	09/688,032	-	10/8/2000
JDA Software Group, Inc.	09/685,517	-	10/9/2000
JDA Software Group, Inc.	09/684,074	-	10/8/2000
JDA Software Group, Inc.	09/675,415	-	9/29/2000
JDA Software Group, Inc.	09/639,491	-	8/15/2000
JDA Software Group, Inc.	09/510,607	-	2/22/2000
JDA Software Group, Inc.	10/002,433	-	10/23/2001