

## PATENT ASSIGNMENT COVER SHEET

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| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                                                       |                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | RELEASE OF SECURITY INTEREST IN PATENTS AT REEL/FRAME NO. 29548/0708 |                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                                                      |                       |
|                                                                                                                                                                                                 | <b>Name</b>                                                          | <b>Execution Date</b> |
|                                                                                                                                                                                                 | CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH                              | 10/12/2016            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                                                      |                       |
| <b>Name:</b>                                                                                                                                                                                    | REDPRAIRIE CORPORATION                                               |                       |
| <b>Street Address:</b>                                                                                                                                                                          | 20700 SWENSON DR                                                     |                       |
| <b>City:</b>                                                                                                                                                                                    | WAUKESHA                                                             |                       |
| <b>State/Country:</b>                                                                                                                                                                           | WISCONSIN                                                            |                       |
| <b>Postal Code:</b>                                                                                                                                                                             | 53186                                                                |                       |
| <b>PROPERTY NUMBERS Total: 2</b>                                                                                                                                                                |                                                                      |                       |
|                                                                                                                                                                                                 | <b>Property Type</b>                                                 | <b>Number</b>         |
|                                                                                                                                                                                                 | <b>Patent Number:</b>                                                | 5497141               |
|                                                                                                                                                                                                 | <b>Patent Number:</b>                                                | 6854010               |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                                                      |                       |
| <b>Fax Number:</b>                                                                                                                                                                              | (213)891-8763                                                        |                       |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                                                      |                       |
| <b>Email:</b>                                                                                                                                                                                   | rhonda.deleon@lw.com                                                 |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | LATHAM & WATKINS LLP                                                 |                       |
| <b>Address Line 1:</b>                                                                                                                                                                          | 355 SOUTH GRAND AVENUE                                               |                       |
| <b>Address Line 4:</b>                                                                                                                                                                          | LOS ANGELES, CALIFORNIA 90071-1560                                   |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 030786-0682                                                          |                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | RHONDA DELEON                                                        |                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Rhonda DeLeon/                                                      |                       |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 10/12/2016                                                           |                       |
| <b>Total Attachments: 16</b>                                                                                                                                                                    |                                                                      |                       |
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## RELEASE OF SECURITY INTEREST IN PATENTS

This **RELEASE OF SECURITY INTEREST IN PATENTS** (the "Release") is dated as of October 12, 2016 by Credit Suisse AG, Cayman Islands Branch, as Administrative Agent (the "Administrative Agent"), in favor of RP Crown Parent, LLC (the "Borrower"), RP Crown Holding, LLC ("Holdings"), RedPrairie Corporation, Weseley Software Development Corp., RedPrairie Services Corporation, Multi-Channel Holdings, Inc., Multi-Channel Intermediate Holdings, Inc., Escalate, Inc., JDA Software Group, Inc., JDA Software, Inc., JDA Worldwide, Inc., JDA Software Services, Inc., Manugistics Services, Inc., Manugistics Holdings Delaware II, Inc., I2 Technologies, Inc., I2 Technologies International Services, LLC, and JDA Software Russia Holdings, Inc. (together with the Borrower and Holdings, each a "Grantor" and collectively the "Grantors"). All capitalized terms used but not otherwise defined herein have the meanings given to them in the Security Agreement, and if not therein defined, in the Loan Agreement, as referred to below.

### WITNESSETH

WHEREAS, the Holdings, the Borrower, and the Administrative Agent entered into that certain First Lien Credit Agreement dated as of December 14, 2012 (as amended, supplemented or otherwise modified from time to time, the "Credit Agreement") and the Grantors and the Administrative Agent entered into that certain 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");

WHEREAS, pursuant to the Credit Agreement and the Security Agreement, the Grantors executed and delivered to the Administrative Agent that certain First Lien Patent Security Agreement dated as of December 21, 2012 (the "Patent Security Agreement");

WHEREAS, the Patent Security Agreement was recorded with the United States Patent and Trademark Office ("USPTO") on December 27, 2012 at Reel/Frame No. 029548/0708; and

WHEREAS, the Grantors have requested that the Administrative Agent release its security interest in its right, title or interest in or to any and all of its Patent Collateral (as defined in the Patent Security Agreement), including the United States patents and patent applications listed on Schedule I hereto.

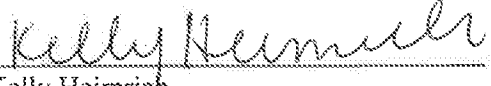
NOW, THEREFORE, in consideration of the foregoing, for good and valuable consideration, the receipt and adequacy of which the parties acknowledge, the Administrative Agent hereby DISCHARGES, TERMINATES and RELEASES, without recourse, representation or warranty, its security interest in and to all of its right, title and interest in and to the Patent Collateral, including the United State patents and patent applications set forth in Schedule I attached hereto and incorporated herein by reference, and agrees that all the security interest in the Patent Collateral is hereby discharged, terminated and released. The undersigned hereby transfers and assigns to the Grantors, without recourse, representation or warranty, any and all right, title and interest that the Administrative Agent may have obtained in, to and under the Patent Collateral under the Credit Agreement and the Security Agreement.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the Administrative Agent has caused this Release to be duly executed and delivered as of the date first written above.

**CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH,**  
as Administrative Agent

By:   
Name: Whitney Gaston  
Title: Authorized Signatory

By:   
Name: Kelly Heimrich  
Title: Authorized Signatory

SCHEDULE I  
to  
RELEASE OF SECURITY INTEREST IN PATENTS

| <b>Registrant (or Last Registered Owner)</b> | <b>Patent No.</b> | <b>Patent Application No.</b> | <b>Patent Publication No.</b> | <b>Filing Date</b> |
|----------------------------------------------|-------------------|-------------------------------|-------------------------------|--------------------|
| 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          |

| <b>Registrant (or Last Registered Owner)</b> | <b>Patent No.</b> | <b>Patent Application No.</b> | <b>Patent Publication No.</b> | <b>Filing Date</b> |
|----------------------------------------------|-------------------|-------------------------------|-------------------------------|--------------------|
| JDA Software Group, Inc.                     | 7,949,598         | 12/507,669                    | US2009-0281919 A1             | 7/22/2009          |
| 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                                 | 7,765,185         | 10/847,009                    | US 2004-0215655 A1            | 5/17/2004          |

| Registrant (or Last Registered Owner) | Patent No. | Patent Application No. | Patent Publication No. | Filing Date |
|---------------------------------------|------------|------------------------|------------------------|-------------|
| Group, Inc.                           |            |                        |                        |             |
| 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   |

| Registrant (or Last Registered Owner) | Patent No. | Patent Application No. | Patent Publication No. | Filing Date |
|---------------------------------------|------------|------------------------|------------------------|-------------|
| 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  |
| JDA Software                          | 7,502,757  | 09/820,370             | US 2001-0047323 A1     | 3/11/2001   |



| Registrant (or Last Registered Owner) | Patent No. | Patent Application No. | Patent Publication No. | Filing Date |
|---------------------------------------|------------|------------------------|------------------------|-------------|
| Group, Inc.                           |            |                        |                        |             |
| 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   |
| JDA Software Group, Inc.              | 7,324,983  | 10/035,712             | -                      | 11/8/2001   |

| Registrant (or Last Registered Owner) | Patent No. | Patent Application No. | Patent Publication No. | Filing Date |
|---------------------------------------|------------|------------------------|------------------------|-------------|
| 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  |
| JDA Software Group, Inc.              | 7,139,719  | 09/684,076             | -                      | 10/8/2000   |
| JDA Software                          | 7,133,848  | 09/859,674             | US 2002-0116348 A1     | 5/18/2001   |

| Registrant (or Last Registered Owner) | Patent No. | Patent Application No. | Patent Publication No. | Filing Date |
|---------------------------------------|------------|------------------------|------------------------|-------------|
| Group, Inc.                           |            |                        |                        |             |
| 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  |
| 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  |

| Registrant (or Last Registered Owner) | Patent No. | Patent Application No. | Patent Publication No. | Filing Date |
|---------------------------------------|------------|------------------------|------------------------|-------------|
| 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  |
| 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                          | 6,922,675  | 09/679,464             | -                      | 10/4/2000   |

| Registrant (or Last Registered Owner) | Patent No. | Patent Application No. | Patent Publication No. | Filing Date |
|---------------------------------------|------------|------------------------|------------------------|-------------|
| Group, Inc.                           |            |                        |                        |             |
| 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 Group, Inc.              | 6,708,174  | 09/742,851             | -                      | 12/20/2000  |
| 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   |

| Registrant (or Last Registered Owner) | Patent No. | Patent Application No. | Patent Publication No. | Filing Date |
|---------------------------------------|------------|------------------------|------------------------|-------------|
| 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   |
| 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                          | 6,289,385  | 09/156,722             | -                      | 9/18/1998   |

| Registrant (or Last Registered Owner) | Patent No. | Patent Application No. | Patent Publication No. | Filing Date |
|---------------------------------------|------------|------------------------|------------------------|-------------|
| Group, Inc.                           |            |                        |                        |             |
| 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   |
| 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   |

| Registrant (or Last Registered Owner) | Patent No. | Patent Application No. | Patent Publication No. | Filing Date |
|---------------------------------------|------------|------------------------|------------------------|-------------|
| 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    |

| Registrant (or Last Registered Owner) | Patent Application No. | Patent Publication No. | Filing Date |
|---------------------------------------|------------------------|------------------------|-------------|
| 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 Group, Inc.              | 13/327,743             | -                      | 12/15/2011  |
| 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   |



| <b>Registrant (or Last Registered Owner)</b> | <b>Patent Application No.</b> | <b>Patent Publication No.</b> | <b>Filing Date</b> |
|----------------------------------------------|-------------------------------|-------------------------------|--------------------|
| 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          |
| 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         |
| 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           |

| <b>Registrant (or Last Registered Owner)</b> | <b>Patent Application No.</b> | <b>Patent Publication No.</b> | <b>Filing Date</b> |
|----------------------------------------------|-------------------------------|-------------------------------|--------------------|
| 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          |
| 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         |