



**JetTrac Route[™]
Installation Guide
User Guide**

**Version 3.55
April 22, 2007**

Version History

Date	Version	Notes
June 15, 1999	1.0	Initial release of JetTrac Route. Provides for unlimited number of output files to be created based on a single key field. Output filename and path are specified in .ini file.
July 25, 1999	1.1	<ol style="list-style-type: none"> 1. If there are embedded spaces in the field that logic is applied to, they are eliminated before creating the output file. 2. Added capability insert job cards into output files. Can append field value to job card.
August 20, 1999	1.2	<ol style="list-style-type: none"> 1. Added capability to have documents start with fields other than ^field or ^global (as in ^fax command). 2. Added capability to skip first line if it begins with ^job.
August 24, 1999	1.3	Allows suffix (i.e. -z*) to output job cards.
May 23, 2000	2.0	Completely re-written to use new, more powerful ini file format. Now replaces JetTrac Archive as well.
September, 2000	2.1	No longer creates gtmp or tmp files.
October 5, 2000	2.2	<ol style="list-style-type: none"> 1. Fixes bad char in filename issue. 2. Doesn't rename temp output files.
December 20, 2000	2.3	<ol style="list-style-type: none"> 1. Does bad char fixing to fields, not whole output strings. 2. Adds option to fix spaces or not.
October 5, 2001	3.0	<ol style="list-style-type: none"> 1. Deactivate all logic with the breaking field, line 3 of ini, though some line-holder text is required. 2. Option of adding data to output files from command-line input is added. 3. Output files are time/date stamped to have the same time/date order as the documents encountered in the input file.
April 22, 2002	3.2	Added advanced archiving functionality.
September 6, 2002	3.3	Removed vestigial field to group documents.
November 14, 2002	3.33	No longer force .dat output extensions. They are user-specified.
February 3, 2003	3.34	Always puts out a trigger file, even if there is only 1 output file.
March 1, 2004	3.35	Fixes Space/Underscore replacement logic.
March 25, 2005	3.41	<ol style="list-style-type: none"> 1. Add switch for no grouping, only overwriting. 2. Datetime1 reserved field added. 3. Add switch for no filtering on the last field in the job card formula. 4. Fix Log message when no document breaking string found.
June 21, 2005	3.42	Changed exact match to exact line, rather than "starts with" match
July 6, 2005	3.43	<ol style="list-style-type: none"> 1. Last field filter switch removed 2. If you want to not filter an individual field value on line 4 of ini, insert @ before the fieldname.
July 11, 2005	3.50	Tag Mode support added
September 11, 2005	3.51	New Tag Mode library implemented
October 13, 2005	3.52	<ol style="list-style-type: none"> 1. Fixed FNF mode bug 2. If a current output file pre-exists, it will be purged before this run.
December 8, 2005	3.53	Temp files re-implemented.
February 26, 2006	3.54	Dynamic memory allocation implemented. Line 5 of the ini file is now just a placeholder, and a value is still required on the line.
April 22, 2007	3.55	Now puts it's version number in the log file.

JetTrac Route™ Installation Guide and User Guide

April 22, 2007

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1.0 INTRODUCTION

1.1 Purpose

This document is a guide to installing, configuring and using the JetTrac Route™ Custom Agent. This document includes detailed instructions for installation and configuration in the Adobe Central Output Server Job Management Database.

1.2 Background

JetTrac Route™ routes documents found in the Adobe Central Output Server field-nominated file by separating and grouping the documents found in a batch by a key field. This field can be any field found in every document.

JetTrac Route creates a separate output field-nominated file for each unique value found in the key field. If the same value is found more than once, the subsequent documents are added to (grouped with) the first output fnf created for that key. Each output fnf can then have its own job card and be placed back in the Adobe Central Output Server collector directory. Central can then pick up the files and continue processing them as different and separate jobs, which can have different destinations.

Also is the ability to have Adobe Central Output Server give each individual output file a customized name using the OtherJobTokens variable. This not only provides smarter filenames, it facilitates the archival process.

JetTrac Route™ is written in Java so it will run on any platform that supports Java, including, among others, Windows, UNIX, and AS/400.

1.3 Organization of this Document

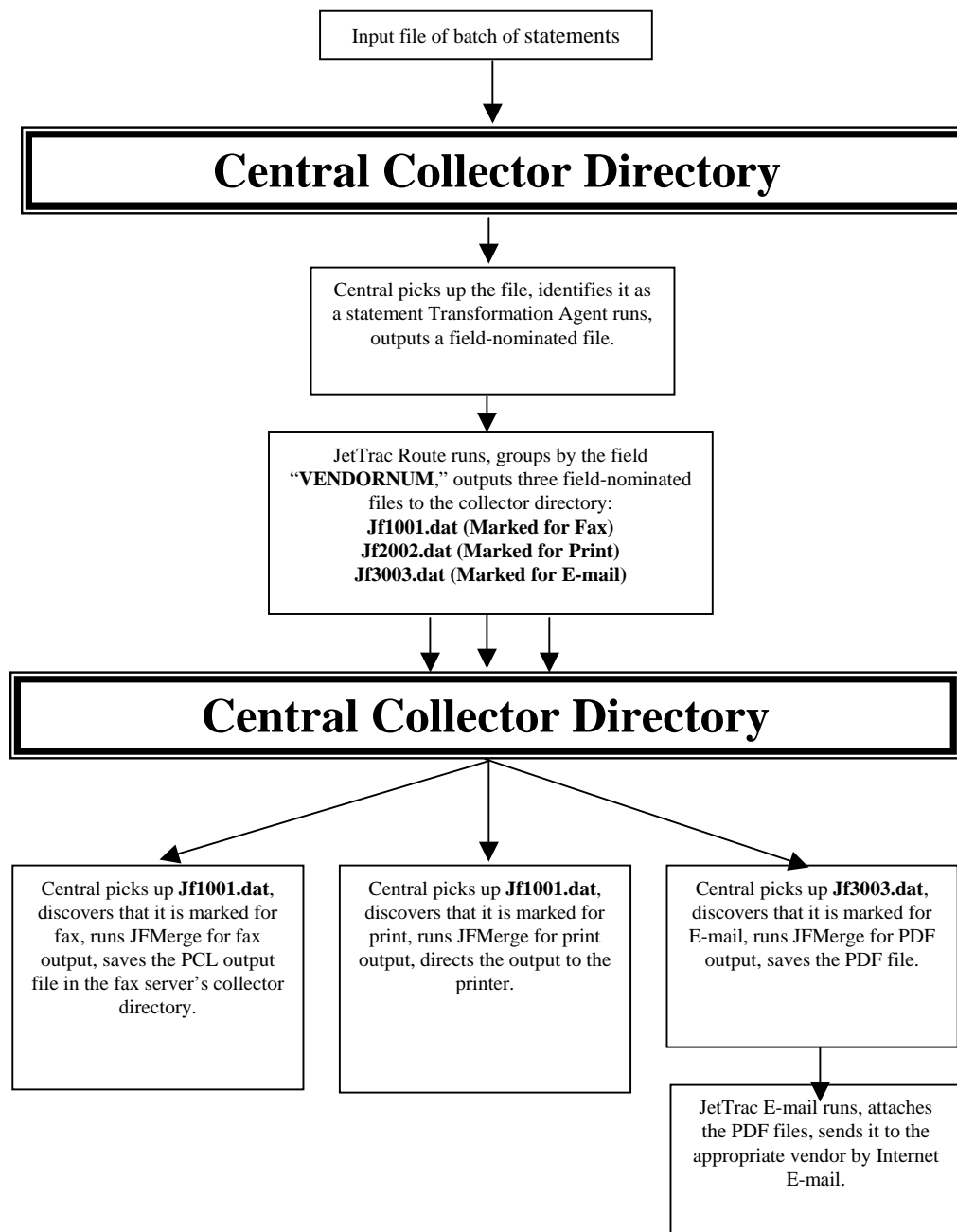
Section 1: Introduction
Section 2: Installation and Configuration Procedures for JetTrac Route™
Section 3: Running JetTrac Route™

1.4 Technical Support

If you need assistance in installing and configuring JetTrac Route™, call Pro Technology Automation, Inc. at 805-527-1248 or email us at support@protechinc.com. Please note that the JetTrac Route™ license fee does not cover configuration services and technical support so there may be an additional charge. Please ensure you read these instructions carefully before calling for technical support.

1.5 Typical Adobe Central Document Server job flow using JetTrac Route

This is a diagram showing job flow for a typical fax server application routing statements. In this application, the output file has a field called “**VENDORNUM**” that JetTrac Route uses to separate the output documents. There are many possible values for the field, but we will say this file has only three **1001**, **2002**, and **3003**: The output file has another field called “**DEST**” that tells Adobe Central Output Server how each vendor wants their documents sent to them. Possible values are: **F** for fax, **P** for print, and **E** for E-mail. Because all documents for each vendor are going the same way, we will group by vendor, but mark the output files with the **DEST** code so Central will know what to do with the files when it gets them.



2.0 INSTALLATION AND CONFIGURATION OF JETTRAC ROUTE™

2.1 Installing Java

Refer to the document *What you need to know about Java and JetTrac Licensing* for installing the Java Runtime Environment (Java or JRE) and generating a site code for your site. It is available on the web at www.jettrac.com on the products page. If installing on a Windows platform, we highly recommend you use version 1.2 or later of the JRE, though in some cases, other versions will work. Contact us for further questions.

2.2 Installing JetTrac Route

After the JRE is installed, you are ready to proceed to the JetTrac Route files themselves. The files you need are:

<u>Filename</u>	<u>Description</u>
JTRoute.jar	JetTrac Route executable program file (java)
JTRoute.ini	JetTrac Route INI file
Run JTRoute.bat	Sample DOS batch file to test JTRoute
route.lic	JetTrac Route license key file (only obtained from Pro Technology)
JTRouteUserGuide.pdf	this document

2.3 Configuring the JetTracRoute.ini file

There are two main steps to complete the configuration of JetTrac Route. The first is to set up the JetTracRoute.ini file. The second is to set up a task and job step in the Job Management Database in Adobe Central Control to call JetTrac Route™ at the correct time.

To set up the INI file, open JetTracRoute.ini. A sample looks like this:

```
startrec
0
".\test\x_ "|DEPTNAME|"dasese"|
"^job printthrough inv"|Datetime1|"dept"|DEPTNAME|"dsep "|CMDLINE|".dat"|
200
YN
c:\Adobe\Central\Server\Data\TriggerFile.dat
^job ArchiveTrigger
~~
Line 1 Search string for beginning of new document (^fax xxx or fieldname)
Line 2 Number of lines to count back from search string to beginning of record
Line 3 String expression to use in creating output file
Line 4 String expression to use as job card
Line 5 Maximum number of lines per record
Line 6 Y to Pass junk, N to filter to underscore on line 4|Y to not append (optional)
Line 7 Trigger file path and filename
Line 8 Job Card for trigger file
```

The first nine lines are values that JetTrac Route reads. The rest of the lines are internal documentation to prompt you for what goes on each line. The double-tilde (~~) serves to separate the code lines from the explanations.

- Line 1** is the field name of the first field in each record in the input Field Nominated File, or it is the exact text of the first field name of each document. If a single word is used here, JetTrac Route assumes it is a field name. If there is a ^fax or other construction, JetTrac Route assumes it is some text other than ^field or ^global. This facilitates using JetTrac Route for applications other than simply print output (i.e. ^fax command used for some fax servers).
- Line 2** The number of lines to count back from the recognized string in **Line 1** before breaking the document. This is included in case there is strange text at the start of the document that needs to be included and JetTrac Route can only recognize text that comes after it.
- Line 3** The string expression to be used to generate the output field-nominated files. Typically, these files will be written back to the Central collector or control directory, but this may not always be the case. You can mix static values with values found in any field in the document. This is done in this format:
1. All elements end in a “|” “pipe” character.
 2. All static elements have quotes around the string inside the pipe.
 3. The field value elements will be filtered for invalid filename characters. Invalid characters will be converted to underscores.
 4. To have a value from the command line used, use **CMDLINE** as the field name. See the example above. This will pass a value from the command line, if specified after the log file. See section 2.4 for a discussion of the command line.
 5. You can have JetTrac Route insert a system date/time string by using the field name **Datetime1**
 6. You must specify the extension that comes on the file (ie “.dat”)
- Line 4** The string expression used for the job card place at the top of the output fnf files. All of the same rules apply as for the strings in **Line 3**, except you have the option to filter spaces to underscores, which is controlled by the switch on **Line 6**. If you put **N** on **line 6, position 1**, but want to leave certain fields unfiltered in the job card, begin that field reference with an @ sign, for instance, |@fieldname|
- Line 5** The maximum number of lines allowed per each document in the input fnf. This allows you to set the total amount of memory that JetTrac Route will use to process. **Note:** as of v 3.54, this value is ignored in favor of dynamic memory allocation by Java. A value here is required for a placeholder, but the value is no longer used.
- Line 6** There are two switches on this line. The first is mandatory, the second one is optional. Here’s the two switches:
1. The first is the switch to decide whether or not to filter characters from the data field values that go into **Line 4** or convert them to _ (underscores). Y means don’t touch it, N means convert to underscore. The filter exactly allows only alpha-numeric, _, -, and . in the data to pass through. **Line 3** (the output file name) is always filtered to remove spaces, regardless of the setting of this switch.
 2. The second switch controls the grouping behavior of JTRoute. If you want to have JetTrac Route not group documents, but merely overwrite them as it finds them (thus only retaining the last matching document, add a Y in position 2 of this line. N is assumed and optional.
- Line 7** The name and the location of the Archiving Trigger file. This file will be written last and given the last date/time stamp of all of the output files. This will ensure that all of the other jobs are processed by Central before the trigger is fired. If you do not wish to use a trigger file, put a # in this line.

Line 8 The name of the Job Card that you want to use in the trigger file. If you do not wish to use a trigger file, put a # in this line.

2.4 The JetTrac Route Command Line

JetTrac Route is a Java program and must be run from within the Java Runtime Environment. Refer to section 2.1 for more information on acquiring and installing Java. Assuming that you already have Java installed on your system, the format of the command line is:

```
java -jar -DJETTRACLF=[path to JTRoute license key file] [path to java.jar file]
[input fnf] [ini file] [log file] [command line input]
```

A sample is:

```
java -jar -DJETTRACLF=c:\jettrac\license\route.lic c:\jettrac\JTRoute\JTRoute.jar
test.fnf JTRoute.ini jfserver.log AP_Printer
```

Section 2.7 will instruct you how to implement this command line for use with Central.

2.5 The JetTrac Route License File

As with all JetTrac products, JetTrac Route is protected from piracy by the JetTrac License Manager system. This system locks JetTrac Route for use exclusively to one server or system in your organization. It works in this manner:

1. You run JetTrac SiteCode on your computer and generate a unique site code file for your system.
2. You send that site code file to Pro Technology Automation.
3. Pro Technology uses your site code file to generate a product license key file.
4. Pro Technology sends the product license key file back to you.
5. When JetTrac Route runs, it scans the system and compares the tokens it finds with the tokens found in the license key file, and if they match, it runs normally.

The JetTrac key for JetTrac Route is ROUTE.

Refer to the document *What you need to know about Java and JetTrac Licensing* for further information.

2.6 Configuring the task in the Job Management Database

To add the JetTrac Route custom agent in Adobe Central Control for Windows platforms:

1. Start Adobe Central Control.
2. Add a new Task by clicking on File, Job Management Database, Tasks.
3. Create a new task by clicking New Task. Set up the Task Definition with the following information:

Task ID:	JTRoute
Program name:	java
Program options:	-DJETTRACLF=c:\JetTrac\route.lic -jar c:\JetTrac\JTRoute.jar @InFile. @MDFName. @LogFileName. @OtherJobTokens.
Comment:	JetTrac Route by ProTechnology

Optionally, you may elect to use a command-line input to JetTrac Route. If so, you would add that value to the end of the program options line after a space. Often, you would add **@OtherJobTokens** if that is how you are passing the variable information. You can then output this variable by using the reserved field name CMDLINE in the formulas for lines 3 and 4 of the ini file.

4. Click OK to save the Task Definition. Close out of the Task Definition window.

2.7 Configuring your job in the Job Management Database

1. Now you must create a job step that calls the JetTrac Route task. This would be one of the job steps in the complete job you are setting up.

If, for instance there is a job that runs a JFTrans step and then a JFMerge, then we will need to split the job into at least two jobs. JetTrac Route would run after the JFTrans step. The JFMerge step will then be put into a new job.

The job will be named according to what we give the name of the job in the ini file, explained in section 2.3 above. This would allow each of the output files created by JetTrac Route to be individually picked up and processed one-by-one by Adobe Central Document Server. The resulting output would be grouped according to the key field. There are myriad other options that can be done with JetTrac Route by varying how the job cards are built and building multiple secondary jobs to handle all of the output options desired.

2. From the main screen of Adobe Central Control, click File, Job Management Database, Jobs. You will get a list of all jobs you have set up in Central. We will assume that you already have a job set up and you are adding a Routing step. Click on the Job that you want to sort, then click “New Step”. The New Job Step screen will appear. Following are the fields that you need to fill in:

Task ID – from the drop down list, select JTRoute

Input File – the value that goes here would be a single letter which is the output from the previous job step. If your current job had two steps, JFTRANS and JFMERGE, then the output from JFTRANS was “A”. If you now want to sort this file, then the Input file for JetTrac Route would be A. If you have questions about how this works, contact your Adobe Central Document Server support person.

Output file – leave this as *

On Error – Select S to Stop the Job if there is an error in JetTrac Route

Form File – this field would contain the fully qualified INI filename that you have set up for JetTrac Route, e.g. c:\JetTrac\JTRoute\JTRoute.ini

Preamble file – This should be *

Printer Name – leave it as *

Macro Number – leave it at 1

Load Flag – leave it at T

Comments – type in a description like “Routing PO’s”

3. Close all windows, get back to the main Adobe Central Control screen and update the Job Management Database by clicking on Control, Reload Job Management DB. When asked if you want to save changes to the Job Management Database, click Yes.

2.8 Tag Mode

JetTrac Route supports tag mode. The only differences are that it will recognize <JOB> or <FLD> or <GLB> in the input file and subsequently start looking for the different style of fieldname tags. Also, exact match on line 1 of the ini file is disabled. The top of each document must be found with reference to a <FLD> fieldname or <GLB> fieldname trigger.

3.0 RUNNING JETTRAC ROUTE™

3.1 Central Log File

JetTrac Route™ conforms to all requirements as a custom agent. It writes a status to the log file and creates the jetform.rsp. Here is a sample entry in the log file for a successful run of JetTrac Route:

```
19991014121616 JetTrac Route 3.55 (22 Apr 2007) : processing completed, 5 records
991014 12:16:16 C:\JFSRVR\jfsrvr.exe: [400]--> returned [0] JetTrac Route 3.55 (22 Apr 2007) : processing completed, 5 records.
```

3.2 How JetTrac Route controls the order that documents come out of Central

Adobe Central Document Server picks up files from the collector directory in order of time/date stamp, starting with the oldest time/date first and in chronological order from there.

JetTrac Route manipulates the time/date stamp of its output files to ensure that the time/date stamp preserves the order of the documents originally encountered in the input stream.

For Example:

An stream of input documents like this:

A B C C C C C C C C B B B B B B B B B B A A A A A A

Has documents that originally appear in A B C order.

After JetTrac Route groups the documents, would be processed by Central in this order:

A A A A A A A A B B B B B B B B B C C C C C C C C C C

Thus maintaining the original A B C order.

JetTrac Route can dynamically manipulate the time/date stamp of archiving file, if JTRoute created the archiving trigger file. The time/date stamp will be set, so that the trigger file will be processed after all the other files had been created by JTRoute.