PRO TECHNOLOGY
AUTOMATION, INC.

JetTrac Lookup™
Installation Guide
User Guide

Version 1.22
March 9, 2000

Version History

Date	Version	Notes
August 15, 1999	1.0	First release of Java version of JetTrac Lookup. Provides for unlimited number of fields to be inserted in the output Field Nominated File based on the lookup of a key value
September 25, 1999	1.1	Added additional functionality to hardcode the key value in the INI file when it is not available in the input data file.
October 18, 1999	1.2	Pads a numeric field of the Check Number with zeros to produce a fixed number of digits as required by a bank
March 9, 2000	1.22	Added new lines to the INI file to continue processing if a lookup on any particular record does not result in a match. Also allows default lookup if no match found. See INI file description for new line 6.

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Trademarks

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TABLE OF CONTENTS

1.0 INTRODUCTION

1.1 Purpose

This document is a guide to installing, configuring and using the JetTrac Lookup™ Custom Agent. This document includes detailed instructions for installation and configuration in the JetForm Central Job Management Database and example files to help you see how the program works.

1.2 Background

JetTrac Lookup™ allows dynamic processing of any type of data needed in a JetForm Central application, particularly useful for processing multiple bank accounts for a check application within a JetForm Central process. This allows for one input data file that is produced by the Line of Business application (e.g. Oracle Financials, J.D. Edwards, SAP, etc.) to have checks that need to be written on multiple bank account to dynamically call the correct information on a check by check basis. This way only one form and one TDF file needs to be designed that is used for all bank accounts.

Please note that the documents (e.g. checks) will print in the same order as the input data file. If you want to print groups of checks together based on dollar ranges to print in batches, then you can implement our JetTrac GroupRange™ product which will print checks in groups, e.g. all checks requiring manual signatures would be printed in one group so no manual sorting of checks would be required.

JetTrac Lookup™ is written in Java so it will run on any platform that supports Java, including, among others, Windows, UNIX, and AS/400. See the *JetTrac Lookup Installation and User Guide for AS/400* for help on AS/400 installation and configuration.

1.3 Organization of this Document

Section 1: Introduction

Section 2: Installation and Configuration Procedures for JetTrac Lookup™

Section 3: Running JetTrac Lookup™

1.4 Technical Support

If you need assistance in installing and configuring JetTrac Lookup™, call Pro Technology Automation, Inc. at 805-527-1248 or email us at support@protechinc.com. Please note that the JetTrac Lookup™ 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.

2.0 INSTALLATION OF JETTRAC LOOKUP™

2.1 Installing Java

JetTrac Lookup is a Java program. This requires that the Java Runtime Environment be installed before JetTrac Lookup will run.

For Windows 95/98/NT, install JRE 1.2.2 (Newest as of this writing, any newer version will also work) for Windows. You can download this at:

http://java.sun.com/products/jdk/1.2/jre/download-windows.html
http://www.javasoft.com/products/jdk/1.2/jre/download-windows.html
http://www.protechinc.com/storage/jre122win32.exe

For AS/400 platforms, Java is an integral part of the OS/400, release 4.3 and above. If you are running an older version of OS/400, please contact your AS/400 support to find out how to run Java applications.

For Unix platforms, JRE may already be installed as part of the operating system. If it is not, contact the manufacturer of your server/workstation to find out where to download it.

For Sun Solaris 7, download JRE at:

http://www.sun.com/solaris/jre

For AIX, OS/2 or OS/400, download JRE at:

http://www.ibm.com/java/jdk/

For Digital Open VMS, Digital Unix 4.0x or Digital Windows NT Alpha, download JRE at:

http://www.digital.com/java/download/

For HP-UX, download 1.1.7 HP-UX 10.20 JRE at:

http://www.hp.com/go/java, then click on “Download software for HP-UX Systems”, then scroll down and select “1.1.7 HP-UX 10.20 JRE”. Accept the license then you will see the following:

2.2 Installing JetTrac Lookup

After the JRE is installed, you are ready to proceed to the JetTrac Lookup files themselves. You will receive an installation EXE file. Simply double click on the EXE file to unzip it and follow the instructions. The following files will be installed:

Folder name	Filename	Description
C:\jfsrvr\CustomAgents\JetTracLookup	JetTracLookup.class	JetTrac Lookup executable program file
C:\jfsrvr\CustomAgents\JetTracLookup	jfcExitHandler.class	Class file for error handling routines
C:\jfsrvr\CustomAgents\JetTracLookup	JetTracLookup.ini	JetTrac Lookup INI file
C:\jfsrvr\CustomAgents\JetTracLookup	JetTracLookup.db	lookup data file
C:\jfsrvr\CustomAgents\JetTracLookup	JetTracLookupUserGuide.pdf – this document	

2.3 Configuring the JetTracLookup.ini file

There are two main steps to complete the configuration of JetTrac Lookup. The first is to set up and test the JetTracLookup.ini and JetTracLookup.db files. The second is to set up a task and job step in the Job Management Database in JetForm Control to call JetTrac Lookup™ at the correct time.

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

```
StartRec
keyval
trigger
c:\jfsrvr\CustomAgents\JetTracLookup\JetTracLookup.db
CheckNumber
N
~~
Field name of first field in each record
Field name of key value (or =keyValue for fixed keys)
Field name of trigger field (insert after this)
Path to lookup.db file
Field name for zero-pad or !!
Y = stop on "not-found", N = continue on "not-found" but don't
     insert any fields or do any zero fill.  D = default on "not-
     found" and use the very first row of the DB file for
     processing
```

The first five lines are values that JetTrac Lookup 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
Line 2 is the field name of key value (or =keyValue for fixed keys) A fixed key would allow you to specify in this ini file a specific lookup value. This would not change in any given

job step. This would allow you to print using several different jobs, all of which would pull from one .db file

Line 3 is the field name of trigger field (insert after this)

Line 4 is the fully-qualified lookup file name

Line 5 is the field name for zero-pad or !! This will allow you to add zeros to any field value in the data file. This is most often used for check number fields in the MICR line as they often need leading zeros that do not appear in the normal output. Further information about this is included as a part of the JetTrac Lookup.db file. If zero padding is not desired, two exclamation marks, !! need to be entered.

Line 6 is an option on how to handle processing if a lookup in the DB file is attempted but there is not match found. Y = stop on "not-found", N = continue on "not-found" but don't insert any fields or do any zero fill, D = default on "not-found" and use the very first row of the DB file for processing.

Important Note: The order of the fields in the Field Nominated File is critical. The field name of the first field in each record must be first in the Field Nominated File, then the Key Value line Line 2 must occur after that, then the Zero Pad field (if used) must occur after the Key Value field, then the Trigger field from Line 3 must occur after the Zero Pad field.

2.4 Configuring the JetTracLookup.db file

The JetTracLookup.db file contains one or more records that dynamically insert(s) variable information onto the output depending on a key value, like department number. JetTrac Lookup takes the value from the key value field and when it finds a match in the .db file, it inserts the field names and values that match that value. This key value can come from the Field Nominated File or it can be hardcoded in the JetTracLookup.ini file. Here is an example:

```
4
10
^field CheckDigits|^field Address|^field City|^field RoutingNum|
AAA|10|124 Locust Lane|Simi Valley, CA|94950934-3223|
AAB|11|1824 Sigjun Circle|Sugar City, ID|03385492|
AAC|5|1 Infinite Loop|Cupertino, CA|0097-654333|
```

Each line of the file has the following purpose:

Line 1: This is the number of fields in each record of the DB file

Line 2: This is the maximum number of documents to expect in the input file. JetTrac Lookup uses this number to optimize memory allocation and processing speed.

Line 3: This is the line where all of the output field names are declared. This also allows to specify whether they be ^field or ^global. The first field also specifies the name of the field that will contain a number to tell JetTrac Lookup the number of digits to place in the zero-padded field. Each subsequent field is separated by a pipe | character (usually the shift of the backslash key) and the line must end with a pipe character.

Lines 4-n: These lines contain the lookup value to match followed by the values to insert in the fields specified in line 3 above. Each value is separated by a pipe | character (usually

the shift of the backslash key) and each line must end with a pipe character. The first value in each line is the lookup value that must match the value found in the key field specified in the .ini file. After the key value, the fields follow in order corresponding to the field names specified in line 3. There should be the same number of field values on these lines and there are field names on line 3. Each lookup value must be unique, but the other data in the fields doesn't need to be.

Note: To create a multiple line field, simply place a tilde ~ between the desired data

2.5 Configuring the task in the Job Management Database

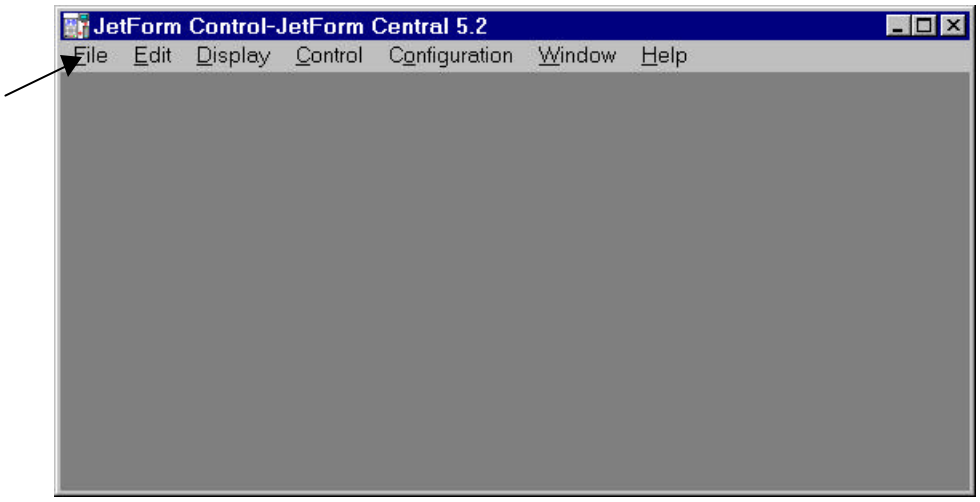
JetTrac Lookup will take in three files in the command line arguments:

<input file> <output file> <ini file> <log file>

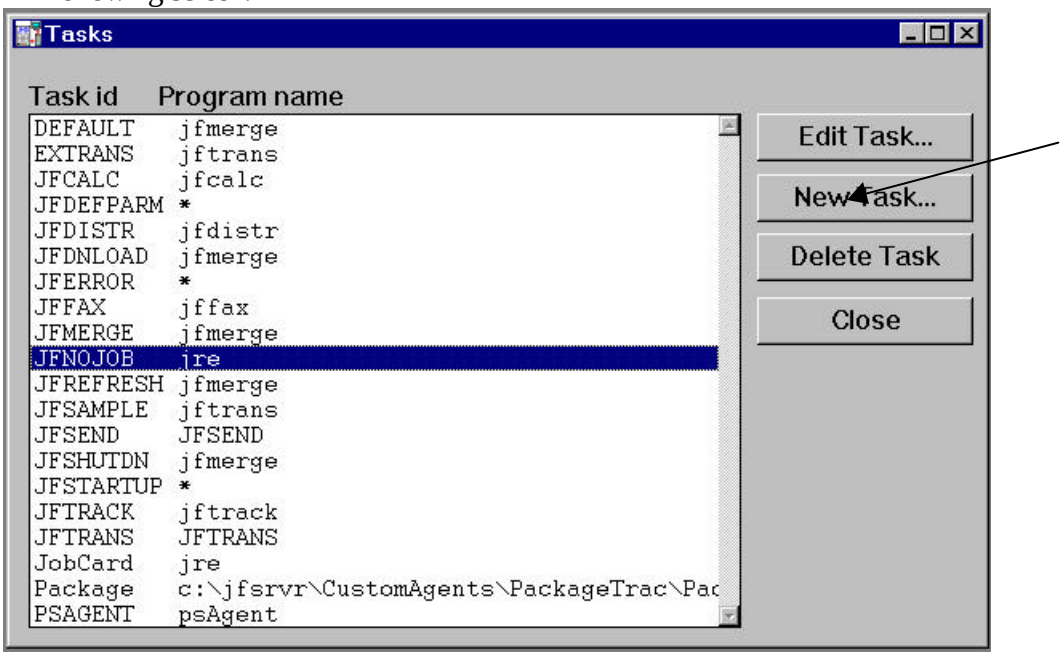
The input file is the Field Nominated File created by the previous job step, which often is the JetForm Central Transformation Agent, though may be another custom agent. The output file is the Field Nominated File output from JetTrac Lookup with the added fields. The INI file is the file with all the definitions as specified in Section 2.2. The output file is the Field Nominated File output from JetTrac Lookup with the added fields. The log file is the fully qualified JetForm Central logfile name.

To add the JetTrac Lookup custom agent in JetForm Control for Windows platforms:

1. Start JetForm Control by clicking Start, Programs, JetForm Central, JetForm Control (may be slightly different for your installation). You will get the following screen:



2. Add a new Task by clicking on File, Job Management Database, Tasks. You will get the following screen:



3. Create a new task by clicking New Task. Set up the Task Definition with the following information:

Task ID:	Lookup
Program name: jre	
Program options:	-cp c:\jfsrvr\CustomAgents\JetTracLookup JetTracLookup @InFile c:\jfsrvr\CustomAgents\JetTracLookup\JetTracLookup.ini @OutFile c:\jfsrvr\jfserver.log
Comment:	JetTrac Lookup Custom Agent by Pro Technology

Note: JetForm Central only allows a maximum of nine characters for task ID names, so we must abbreviate the task ID name here.

4. Click OK to save the Task Definition.

5. Now you must create a job step that calls the JetTrac Lookup task. This would be one of the job steps in the complete job you are setting up. To set up a new job, from JetForm Control main screen click File, Job Management Database, Jobs, then New Job. Define the

rest of the steps that as needed. If a JFTrans and a JFMerge Job Step exist, JetTrac Lookup will always go after JFTrans and before JFMerge.

6. Close all windows, get back to the main JetForm 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.

3.0 RUNNING JETTRAC LOOKUP™

3.1 Submitting transaction files to JetForm Central

To submit a transaction file to JetForm Central, you place a data file into the Collector Directory. There are a number of ways to do this depending on the platform that you are running JetForm Central. You can FTP the file, use the JetForm Print Processor, use Named Pipes or simply copy the file.

3.2 How JetTrac Lookup™ is triggered

As JetTrac Lookup is set up as one of the steps of a job, whenever a job is triggered that needs to use JetTrac Lookup, the processing happens automatically.

3.4 JetForm Central Log File

JetTrac Lookup™ conforms to all JetForm 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 Lookup:

19991018160126 JetTrac Lookup : processing completed, 50 lines.