JetTrac Standard Module Summary

Most Commonly Used

JetTrac module name	Summary Description	Why/how each module would be used	Category	I want to:
JetTrac ConditionalDataPrep	Conditionally change strings in a file based on the existence of other strings	Used when you only want to change some data in a file conditionally if a certain string is found	Data	I want to change some data in my incoming data file only if a certain string of data is found
JetTrac CSV2XML	Converts CSV ASCII data file format to XML	Can be used through a bat file or within a JetTrac job	Data	I want to convert a CSV file to XML
JetTrac DataPrep	Server side string replacement tool that is similar in concept to the replace function in a text editor	Allows easy correction and manipulation of customer data without customer having to make modifications to their system	Data	I want to be able to fix some data coming out of a customer system without the customer having to change their program
JetTrac DispatchLog	This module updates a customizable log file whenever a dispatch is done to a field technician and updated when the document is returned	Allows end users to view real-time data in a spreadsheet format of all jobs dispatched to the field.	Data	I want to be able to track in a log every dispatch that is done from JetTrac
JetTrac DispatchLog_GetNotReturned	Goes through the dispatch log file and creates an xml file for each technician that has active jobs that have yet to be returned	Run on a scheduled recurring job to look through the dispatch log file	Data	I want to notify technicians of their not returned forms from jobs
JetTrac DispatchLogNoReturn	Creates report of all dispatches sent but not returned	Allows end users to monitor which jobs have been submitted to a mobile user but not yet returned to the JetTrac server	Data	I want to see every day a list of all dispatches (e. g. Work Orders) that have been dispatched to a field technician but not yet returned from the field to JetTrac
JetTrac Lookup	Reads an XML file for a key value and looks up additional data in a simple lookup table and writes that data back to the XML file	Used for looking up distribution preferences (e.g. email, print, fax) or any other kind of data that is not contained in the source system	Data	I want to look up data that is not in my source system (that created the ASCII data or XML) in a table that I create myself or is created from some automatic process. A common use is looking up distribution preferences.
JetTrac PrepopFieldList	Creates a list of fields from a PDF form/XML file that you want to save the data for pre-population	Used when setting up a client so that they can fill in the fields that should be prepopulated when sent out, and creates a list of those field names (looks for fields that are not empty, and do not contain the word Off OFF or off)	Data	I want to create a list of PDF fields that should be prepopulated in a form
JetTrac ReadTransactionSummary	Reads a transaction summary csv file and outputs an xml with calculated fields to determine trends from month to month	Used before JTPushToGoogleSheets in 'Update' mode to store the Transaction Summary highlights and trends in one spreadsheet	Data	I want to keep track of the usage of the Dispatch system by individual clients
JetTrac RetrieveLastInspection	Retrieves Last Inspection data for use in pre-populating new dispatches from last inspection data	When you need to access a specific file with a variable name based on the date	Data	I want to get the fully qualified file path to the most recently created file (assuming the files in the directory are named with the date YYYYMMDD somewhere in the name)
JetTrac Route	Splits up a single XML data file containing data for multiple documents to separate XML files containing the data for one document for each XML	Used if the input to JetTrac is an XML file with a batch of documents and if the requirement is to process them separately.	Data	I want to split up a single XML file containing a whole batch of documents to individual "little" XML files with one document each. The purpose of this is to be able to process each document separately.
JetTrac VariableDataPrep	Replaces values defined in a config file with data from a separate XML file	Used to replace values in one file with a value stored in the tag of a separate XML file. IE Want to replace occurrences of the word "CustomerName" with the value stored in the tag <Name> from an input XML, whatever it is.	Data	I want to replace values in a file with data stored in an XML file

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JetTrac XML2CSV	Read specific fields from an XML file and create a CSV file in a specified format.	Used to provide "loose" integration with other systems that can ingest a CSV containing metadata and optionally a fully qualified PDF filename of the document just created in the JetTrac job	Data	I want to extract data from an XML file and create a new CSV file that I can pass to another system for processing
JetTrac XMLCombine	Combines multiple XML files together	Used to combine multiple XML files that could have been created from different sources. Once there is a single XML file then JetTrac PDFMerge can run one time to merge all this data to the PDF forms.	Data	I want to combine multiple XML files
JetTrac XMLTrans	Server-based application that does manipulation of XML data	Can create new fields that concatenate multiple fields in the XML, do calculations, date formatting, etc.	Data	I want to manipulate my XML data to provide concatenations, arithmetic functions, date formatting, etc.
JetTrac AppointmentNotify	Parses out events (pulled from Google Calendar) that are on a specific amount of days from the current date	Run on a scheduled recurring job to check if there are any appointments saved within a given amount of days	Google	I want to notify attendees of an event that they have an upcoming appointment or service scheduled, possibly with multiple notifications depending on how many days away
JetTrac ClearGoogleSheets	Clear the data from a Google Sheet after the data has been pulled out	Commonly used when data is written to a Google Sheet for a period of time, e.g. timesheet data then when all that data is extracted then you want to clear all the data from that Google Sheet. This module is used in the Cobra Mobile Time Sheets solution.	Google	I want to be able to clear the data from a Google Sheet at a certain part of my business process
JetTrac GoogleCalendar_EventDescriptionParse	Parses out data from the event description in a google calendar event and apends it to the xml as separate tags	To pass more information to a JetTrac job than generally would be stored in a GoogleCalendar event	Google	I want to pass more information to a JetTrac job than generally would be stored in a GoogleCalendar event
JetTrac GoogleSheetCreate	Creates a new Google Sheet from XML data with complete control in a config file the columns that are created.	Developed for integration with Cobra and JayMob to create a Google Sheet with a list of materials that could be used in a job as part of a Mobile Field Sheet process. The technician can open this Google Sheet on any device and enter quantities. This data is then extracted in JetTrac when the technician returns the Mobile Field Sheet to JetTrac.	Google	As a Technician, I want to be able to open up a material list on any device and easily enter quantities of all materials that I use on a job.
JetTrac ImportToGoogleSheets	Programmatic import to a Google Sheet from a CSV file	Developed to reads a CSV file with Customer information (for example) and do a bulk upload to a Google Sheet	Google	I want to import multiple rows of data to a Google Sheet.
JetTrac JayMob_OpenSlots	Creates an output CSV file of Time Slots between configurable start and end days and time periods in a day, excluding those that are already accounted for in Google Calendar	To be sent an XML denoting the time and day of a scheduled event that was currently "Open" in the database, mark it as no longer open and return the list of open times for a specified range of days	Google	I want to keep track of available time slots and remove them when scheduling an appointment through a JayMob page
JetTrac PullFromGoogleCalendar	Pulls specified events from Google Calendar to XML	Takes data from Google Calendar to update another system	Google	I want to pull the data from Google Calendar, parse it out to individual fields then send that data to another system for processing, e.g. payroll
JetTrac PullFromGoogleSheets	Server-side pull of data from Google Sheets to a CSV file (or XML)	Production process to pull data from Google Sheets and update other systems.	Google	I want to be able to pull all the data from a Google Sheet and create a CSV file for another system (like a payroll system, ERP, accounting system, etc.) to process

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JetTrac PushToGoogleCalendar	Server-side creation of calendar events in Google Calendar as part of a business process	Can automatically add Google Calendar events when scheduling or rescheduling appointments.	Google	I want to automatically create Google Calendar entries in any users calendar that I have access to
JetTrac PushToGoogleDrive	Server-side uploading of any file to specified Google Drive folder structure	Allows any kind of documents to be viewed by field personnel in a browser or Google drive app on smartphone, tablet, laptop or PC/Mac	Google	I want to programmatically upload documents to Google Drive and have the folder structure automtically created from the filename
JetTrac PushToGoogleSheets	Server-side updating of Google Sheets from data in an XML file that is collected from PDF forms	Easily captures data submitted from PDF forms to Google Sheets that can be reviewed and approved before data is submitted to other systems	Google	I want to be able to push data to a Google Sheet as part of a JetTrac process
JetTrac AnnotationExtract	Extracts annotations from PDF's to an XML file	Any annotations made in a PDF form can be extracted to a data file containing the date, time, user and annotation text. This file can then be used to update a database, merge the data into another form, use the annotation data as part of logic in a workflow process. This could be a key part of a PDF form Review and Approval process.	PDF	I want to be able to get all the sticky note annotations from a PDF form that multiple people are commenting on as part of a business process
JetTrac Bookmark	Dynamically adds bookmarks to a PDF form based on data in an input XML file.	Easy navigation through a long PDF form	PDF	I want to create bookmarks for certain parts of my PDF form in order to make it easy for a user to find specific sections of the PDF form
JetTrac CallForm	Converts "normalized" XML data to field names with _1, _2 prefixes that match the field names in a PDF form that we want to merge this data into. Once the field names are adjusted then we "Call" a PDF form and merge the data into it.	Used for when an XML data file comes from another system with repeated "detail" fields in a normal XML structure and they want that data to be merged into a PDF Acroform.	PDF	I want to take XML data from another system with repeating detail lines and merge that data into a PDF form that has unique field names for every field in the form
JetTrac HighlightDiff	Used in conjunction with JetTrac XMLDiff to identify differences between two XML's/PDF's. JetTrac HighlightDiff then highlights the fields in the two PDF's that are different	Can be used to programmatically identify and highlight the differences between two versions of a PDF or XML	PDF	I want to visually see the differences in two versions of a PDF form
JetTrac HighlightFields	Dynamically highlight specific data in a PDF based on a pattern	Purpose is for a field user to easily find sections of information in a PDF form on a tablet	PDF	I want to highlight certain fields in a PDF form
JetTrac ImageMerge	Dynamically merges image references from the input XML to the PDF form package.	From the server, able to dynamically merge logos and other images into PDF forms very easily.	PDF	I want to add images (logo, site diagrams, signatures, photos etc.) to a PDF form
JetTrac PDFBatchMerge	Merges XML data into a whole batch of PDF forms that will become a single PDF fillable form	Provides the mobile user a single PDF form for fill out which is very time efficient.	PDF	I want to merge data into a whole batch of PDF forms at the same time
JetTrac PDFCombineFromCommand	From the command line normally combines two PDF forms (Acroforms) together into a single PDF package with bookmarks.	Typically used to combine a package of forms together with a submit page	PDF	I want to combine a package of PDF forms with a Submit page as part of a production JetTrac job

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JetTrac PDFCombineFromXML	From a list of forms in the XML, combines multiple PDF forms (Acroforms) together into a single PDF package with bookmarks.	For documents, e.g. tests/inspections that require multiple forms we combine all PDF forms together into a single bookmarked PDF package. Easier for the mobile user to receive, navigate and fill out the forms as they don't have to open and close multiple forms.	PDF	I want to combine multiple PDF forms together as part of a production JetTrac job
JetTrac PDFDeleteEmptyPages	Server-side and programmatic deletion of pages in a PDF form that do not contain any data.	This module is the server-side companion to our capability to provide additional overflow pages. JetTrac PDFDeleteEmptyPages will intelligently analyze every field of the overflow pages to determine if there is any data that was added and if none then the page is deleted. The benefit for the supervisor doing the review and approval is that they do not need to even see the overflow pages that were not needed.	PDF	I want to programmatically remove empty pages from a PDF form package
JetTrac PDFExtract	Extracts form data, annotations and sound from a PDF form, both AcroForm and XFA PDF forms. Also used to flatten PDF forms for distribution or archiving.	Extracts every single field and annotation from every PDF form. Can be used to populate other PDF forms, populating metadata in document management systems, writing all or selected data to a SQL database for reporting purposes, automatically pulling the data from the last periods test/inspection for pre-populating into the current test/inspection without needing a database	PDF	I want to extract all the data out of a PDF form and/or I want to flatten a PDF (Acroform)
JetTrac PDFMerge	A core part of every JetTrac BYOD solution - merges XML data into a single PDF form.	Easily pre-fill form fields to send out to moobile users	PDF	I want to merge data into a single PDF form
JetTrac PDFPageDelete	Programmatically delete pages in a fillable PDF form based on specific criteria from a configuration file, the input XML data and hidden fields in the PDF form	This module would be used when you want to be able to control deleting certain pages from a PDF form	PDF	I want to delete specific pages (including page ranges) from a PDF form
JetTrac PDFPageExtract	Programmatically extract pages in a fillable PDF form based on specific criteria from a configuration file, the input XML data and hidden fields in the PDF form	This module would be used when you want to be able to control extracting certain pages from a PDF form	PDF	I want to extract specific pages (including page ranges) from a PDF form
JetTrac PDFPrint	Production printing of PDF's to network printers	Allows documents to be printed as part of a production JetTrac job	PDF	I want to print a PDF to a network printer as part of a production JetTrac job
JetTrac TrimOverflow	Calculates the right number of pages for each form in a dispatch based on data provided for each facility like number of tanks, sumps, dispensers, UDC then trims all unneeded pages	The field technicians only receive the number of pages that are needed based on that facility/dispatch. This makes the dispatched form package smaller in size and a fewer number of pages for the mobile user to scroll through	PDF	I want to be able to calculate how many overflow pages are applicable for the specific Facility that I will be inspecting then remove any unneeded overflow pages before the PDF form package is sent to the technician
JetTrac Command	Executes any DOS command, like delete or copy files as part of a production JetTrac job	If there is a requirement to do something that a JetTrac module does not do then JetTrac Command can call a bat file that executes a command	System	I want to do something as part of a JetTrac production job that none of the JetTrac modules do but can be done with a bat file or DOS command.

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JetTrac Dashboard	Graphical interface to production processing in JetTrac JobController	For a non-technical user to be able to see what JetTrac is processing in a very user friendly way	System	I want to be able to see what JetTrac is doing without having to look at detailed log files and try to interpret them
JetTrac FileCopy	Server side production copying of files and documents	Used in production jobs to control copying files to different locations with specified filenames.	System	I want to be able to copy a file to another location/filename as part of a production JetTrac job
JetTrac FileDelete	Server side production deletion of files	Used in production jobs to control space by removing unneeded/irrelevant documents	System	I want to remove certain documents after a certain process is completed
JetTrac FolderCreate	Dynamically creates folders from XML data	Used when folders on the Windows server need to be created dynamically and on-the-fly based on data in PDF forms or from other systems.	System	I want JetTrac to store documents in a network folder structure based on fields in my data and if a folder doesn't exist I want JetTrac to create it on the fly
JetTrac InstanceBalance	Automatic load balancing between multiple instances of JetTrac JobController running on the same server OR different servers	JetTrac InstanceBalance places an input file in the directory with the least number of files. The user passes files to the "primary instance" where JetTrac InstanceBalance runs and it then passes the files to the other instances, which are known as the "secondary instances." This is not done via a round-robin. This is done by counting how many files are being processed by each instance at the moment a new file arrives, and placing the new file with the first instance that has the least number of files.

If the incoming file volume is low, then the files may always be placed in the "preferred instance" as it would be the first instance with zero files to process. However, as volume increases, the files will be placed in other instances, to ensure that there is not an imbalance in the number of files being processed at any one moment, though over time, the preferred instance may process many more files than the other instances, especially if there are long periods of low transaction file volume. | System | I want to be able to accommodate processing large volumes of files spread over multiple instances of JetTrac JobController. |
JetTrac JBCError	Automatically called by JetTrac if a job fails	Proactive notification to an administrator if there is a problem in JetTrac processing	System	I want to know if a job in JetTrac has a problem
JetTrac JBCLog	Writes custom information to the JetTrac JobController log file	Able to customize the JobController log file	System	I want to add some additional information to the JetTrac JobController log file
JetTrac JobConfig	Graphical interface for creating and editing production jobs	Flexibility for ProTechnology, Partner or Customer to customize production job processing with minimal training.	System	I want to to easily create and modify jobs in the JetTrac JobController Job Management Database
JetTrac JobController	Part of every JetTrac BYOD system - core job control system to process production jobs based on a Job Management Database definition. Runs as a Windows service. Scheduled jobs can be set up to run unattended.	Provides server-side automation of all processing of data, forms and jobs for each part of a JetTrac BYOD solution.	System	I want to have a system to process all jobs

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JetTrac Log	Writes custom information to a JetTrac queue file for use in JetTrac Dashboard	Used to customize what information that you want to see in the JetTrac Dashboard	System	I want to be able to control what information I see in my JetTrac Dashboard
JetTrac LogArchive	Server-based archiving of all log files used by JetTrac Field Service for proper management of these files	Keeps system log files organized and backed up on a scheduled basis.	System	I want to be able to archive on a regular basis the JobController log file
JetTrac PDFJob	Built-in JobController function that will read a PDF file to find a job name to process through JetTrac	Used by JetTrac to know what job to run when JetTrac gets a PDF form to process	System	I want JetTrac to know what job to run when I send JetTrac a PDF form for processing
JetTrac POP3Error	Built-in JobController job that can be configured to send an email if there is an error in JetTrac POP3Scanner when picking up an email	Used for proactive error notifcation if JetTrac POP3Scanner encounters an error when picking up and email	System	I want to know if there is an error when picking up an email using JetTrac POP3Scanner
JetTrac SetVariables	Extracts data out of an XML file and populates variables in JetTrac JobController so any step in a job can use those variables to dynamically name files and documents	Runs in production jobs on the server.	System	I want to be able to grab some fields from my XML data and use that data in my JetTrac job to name PDF and XML files
JetTrac TransactionSummary	JobController writes an entry to a Transaction Detail file for every job. This module summarizes the Transaction Detail file into a summarized Excel file that can be used by customer management and for billing	The job summary can be used by management to view a summary of all transactions processed through JetTrac Field Service	System	I want to see a summary of all the JetTrac transactions that have been processed
JetTrac Wait	Pauses a specified number of seconds in job processing	This module would be used to pause a specified number of seconds after one job step is done before the next one starts. This would only be used if there is a job step that is still doing something even though JobController thought that job step was finished.	System	I want a particular step in a JetTrac job to wait for a specific amount of time (like one second) before continuing on to the next step of the job
JetTrac Email	Server-based email application that sends emails in a production job.	Automatically sends emails at any point in a business process that includes PDF attachment, professional cover letter and customized email text. Can either attach the PDF or send a link.	Transport	I want to be able to send an email from a JetTrac job and control every aspect of the distribution, subject, body and attachments
JetTrac FTP	Server-side sending of file by FTP	Automate movement of files between computers. One specific example is when JetTrac BYOD is running in the cloud and QuickBooks is on-premise, when a Work Order is approved then the data from that Work Order can be sent to the customer computer for import directly into QuickBooks - completely automatic and unattended	Transport	I want to be able to FTP a file from the JetTrac server to somewhere else
JetTrac JayMobProcessingRequest	Web Service call from JetTrac to the JayMob backend server	Passes XML or JSON data in a web service call to the JayMob server that will then merge that data into a JayMob and send back a unique URL that can then be sent to a recipient like a field technician	Transport	I want to pre-populate a JayMob with Cobra data and generate a custom link to distribute

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JetTrac POP3Scanner	Windows Service application that scans a POP3 account for emails with forms based data (PDF, XML and other formats) that needs to be processed in JetTrac BYOD	Automates the collection of PDF forms from mobile devices via email for server based processing in JetTrac BYOD.	Transport	I want to be able to pick up emails sent from the field to JetTrac, extract the attachments (normally PDF or XML) and have JetTrac process those attachments