
fabio2

FreeAgent Bulk Input & Output

USER GUIDE

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2. Introduction

Fabio – meaning “FreeAgent Bulk Input and Output” – was born in 2015 from the need to create lots of similar Expense and Mileage records in FreeAgent, and the frustration at the time required to type them all in interactively, one-by-one. There had to be a better way! Over time, Fabio has matured into the multi-functional bulk record manager for both end users and account managers using FreeAgent.

2.1 Architecture & Security

Fabio is a web-based application, making it suitable for both Windows and Mac users, or even smartphones and tablets. The service is hosted in a highly-available datacentre in London, UK, and uses a secure, encrypted connection to FreeAgent. No FreeAgent transaction data is stored by Fabio – only your Fabio login details and simple usage statistics (to target our product improvements) are stored. They are not shared with any third party. Your password is encrypted - we don't know what it is and we can't find out.

How you run your business, is your business, not ours.

2.2 Interface

Fabio takes a Comma Separated Value (CSV) data file as input, which it processes to create corresponding records in FreeAgent. The data file itself can either be created by hand with a simple text editor, or exported from a spreadsheet program such as Microsoft Excel or OpenOffice Calc, using the “**Save As... CSV**” capability.

Exports from other accounting and expense management applications may easily be massaged into Fabio's data file format, for bulk loading into FreeAgent.

2.3 Functionality

Fabio has the following main functions:

1. **Bulk adding new records** to FreeAgent from a spreadsheet (CSV format).
2. **Exporting existing records** from FreeAgent to a spreadsheet (CSV format).
3. **Bulk deleting selected records** from FreeAgent, using a Fabio export spreadsheet (CSV format).

When **adding new records**, the spreadsheet can be prepared either from a blank file, by adopting and adapting example data files (shared on the getfabio.co.uk website), or massaging export files from other accounting or expense management programs. All of the required attributes for a new record must be defined in the Fabio data file.

The following record types are supported: **CONTACT**, **PROJECT**, **TASK**, **TIMESLIP**, **EXPENSE** (also used for Mileage), **BILL**, and **INVOICE**.

When **exporting existing records**, the Fabio User selects a broad set of existing FreeAgent records of interest. For example, expenses within a certain time frame, or relating to a particular project. Once selected, that set of records may then be exported as a Fabio data file.

In order to **bulk delete selected records** from FreeAgent, a set of FreeAgent records must first be exported from FreeAgent using Fabio. This export is required in order to extract the "Unique Record Location" (URL) FreeAgent assigns internally to each and every record. The Fabio User may then edit the exported data file to define which, if not all, records should be deleted from FreeAgent. Then, with the Fabio data file modified, the Fabio User may then process this new data file to delete the specified records from FreeAgent. Only the record URL is needed by Fabio to delete a record; the other parameter values are used to assist the Fabio User in selecting which records should be deleted, or to help prepare new records to add to FreeAgent.

3. Getting Started

- 1 From Fabio's home page, getfabio.co.uk, select "Try Fabio", which will start the Fabio engine in a new window:



Warning: You may bookmark the link for the Fabio engine, but it may change in the future. However, "getfabio.co.uk" will not change.

Fabio - FreeAgent Bulk Input & Output

Email

Password

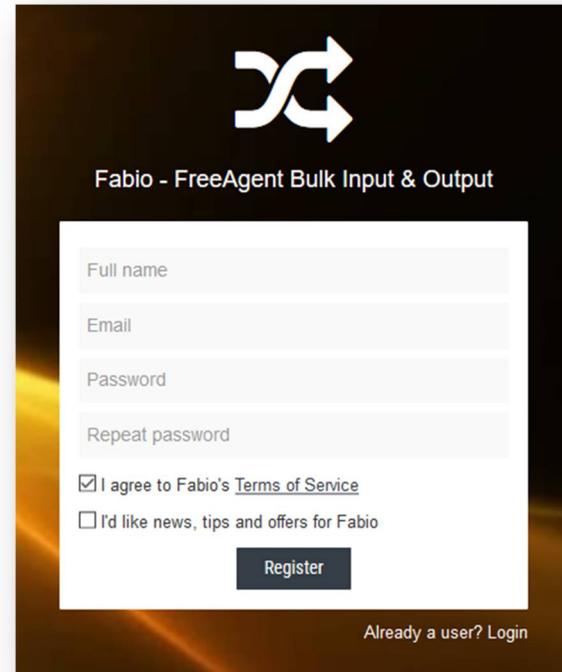
Remember me

Login

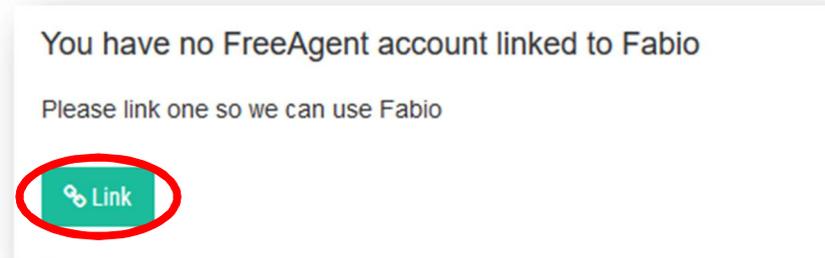
Forgot your password?

Register

- 2 Select the “Register” link, and create your login details:



- 3 Once registered, you will be logged into Fabio, and invited to “Link” your FreeAgent account:



- 4 Click “Link” and provide the login details to your existing FreeAgent account (not your Fabio account):



If you don't yet have a FreeAgent account, use this link to sign-up for one with a **10% lifetime discount** on FreeAgent's subscription:

<http://fre.ag/3xfoaftd>



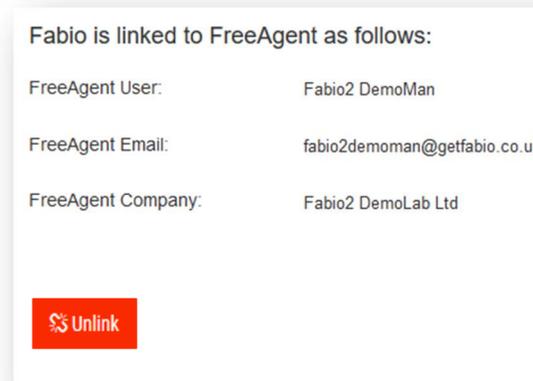
5 Login to FreeAgent:



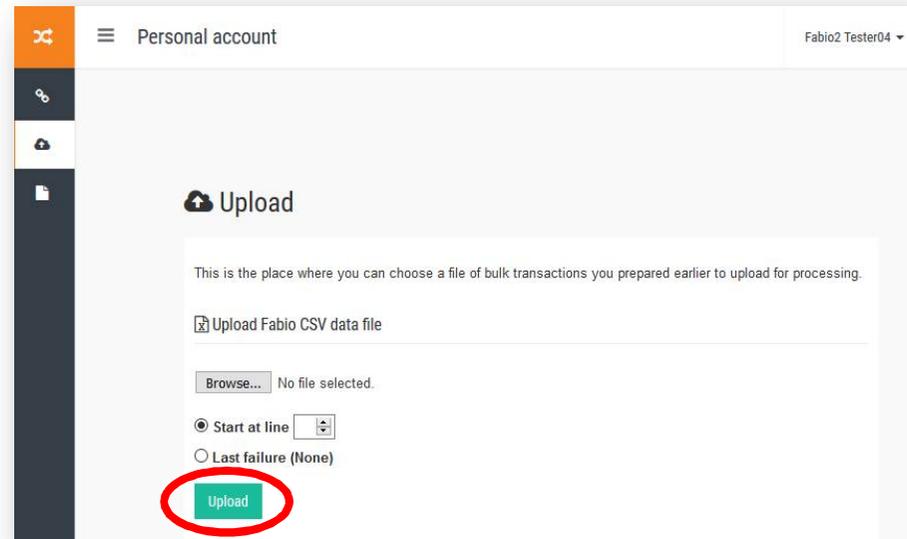
Note: You can also check, or revoke approval, at anytime, within FreeAgent from the **“Settings”** -> **“Approved Applications”** menu.



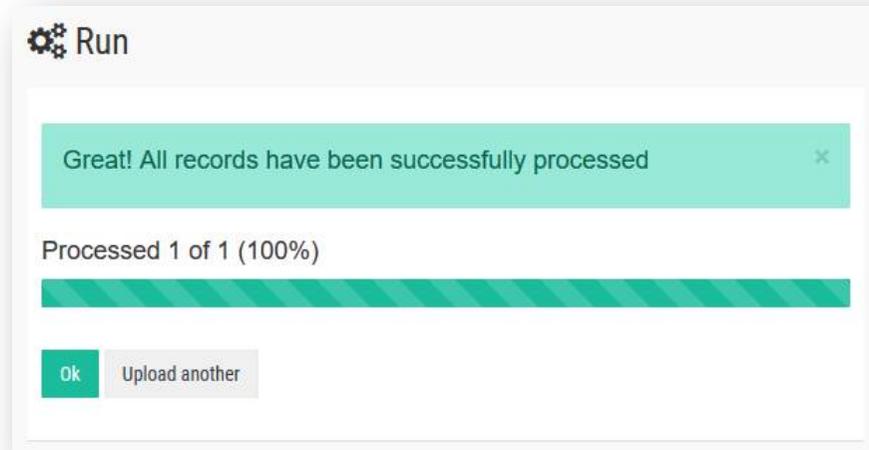
6 Select **“Approve”**:



- 7 Choose the "Upload" (cloud icon) in the left-hand pane, and you're ready to start processing CSV data files into FreeAgent:



- 8 Browse and select the **EXPENSE-Single-test** example file (previously downloaded from the getfabio.co.uk website), and hit "Upload":



- 9 Congratulations! You've just done your first bulk import into FreeAgent. Review (and perhaps now delete) your newly created expense of 1st July 2018.



4. Fabio Accounts

4.1 Accounts Overview

Fabio supports several Account Classes; generally, the greater the subscription level, the greater the functionality provided, allowing Users only to pay for the functionality they need.

4.2 Account Classes

Fabio supports the following Account Classes:

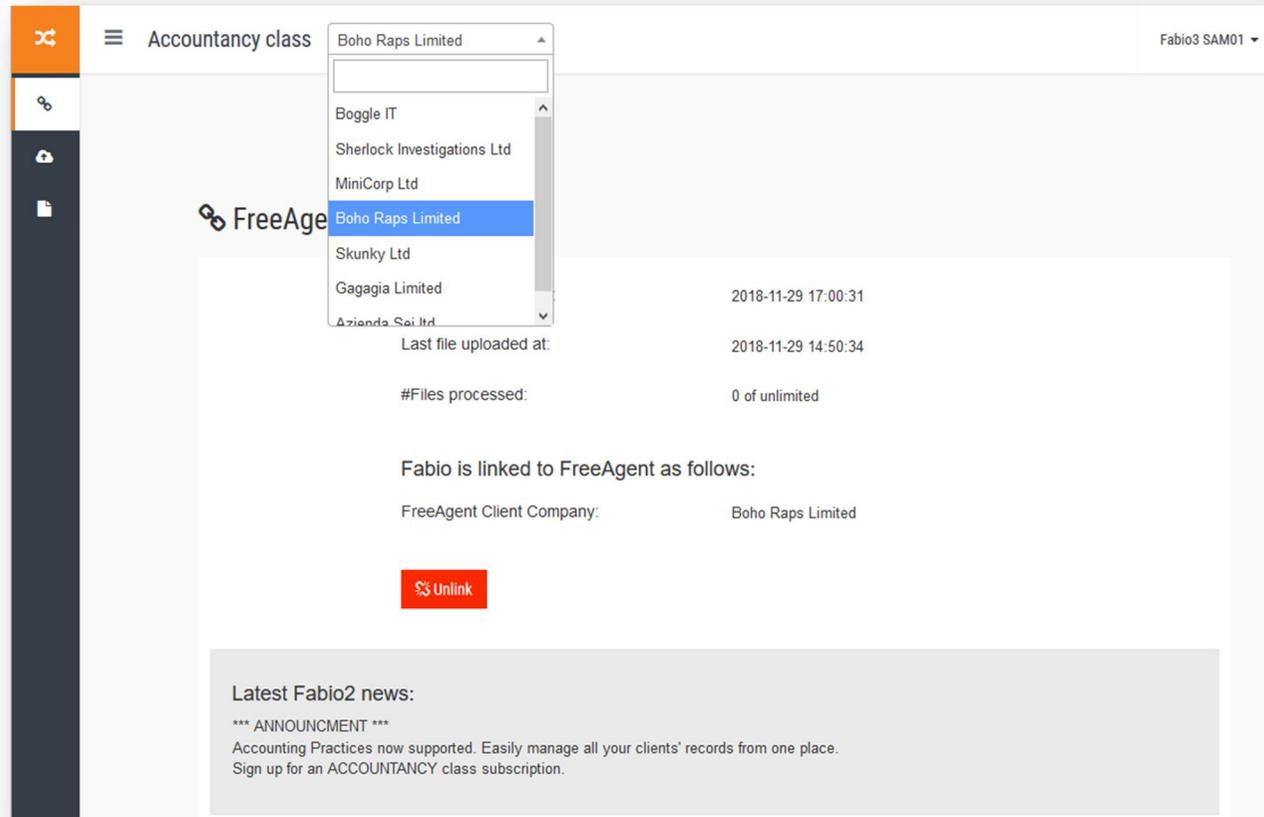
Account Class	Functionality
TRIAL	ALL record types supported, up to 3 records per file, 20 file uploads per business.
PERSONAL	Only EXPENSE and TIMESLIP record types supported, one FreeAgent business per User
BUSINESS	ALL record types supported, one FreeAgent business per User.
ACCOUNTANCY	ALL record types supported, ALL clients per FreeAgent Practice Account Manager supported.

4.3 Account Upgrades

Through the "Pricing" page at getfabio.co.uk, a Fabio User may pay for a Fabio subscription, and automatically receive an "Activation Key". This Activation Key may then be input from the "**Upgrade**" button within the Fabio User settings menu (top right).

4.4 FreeAgent Accounting Practices

Fabio Users with an "ACCOUNTANCY" class login can *only* link to a FreeAgent Practice Account Manager. Once linked, the Account Manager is able to select which of the Practice Clients is being used for bulk record input & output:



5. Fabio Operation

5.1 Operation Overview

Fabio may be used both to add new, export (aka “Report”) and delete existing records within FreeAgent, in bulk.

As such, a Fabio data file may contain rows for both record “ADD” and “DELETE” operations.



In practice, we recommend doing one type of operation, or the other, within a single data file, to avoid disappearing into a wormhole and emerging into a new reality. Similarly, it is worth testing the actual behaviour is as you intended with a only a couple of transactions in a data file, before committing hundreds of transactions with a single data file.

5.2 ADD’ing records to FreeAgent

To create new records in FreeAgent, simply create a Fabio data file, perhaps using an example file from the getfabio.co.uk website as a guide. Once created, then “Upload” the data file for processing. Provided the rows are formatted correctly, and any dependencies¹ already exist in FreeAgent, then Fabio will create a set of new records in FreeAgent.

5.3 DELETE’ing records from FreeAgent

In order to delete records, Fabio must be told explicitly which records to delete. Within FreeAgent, every record is assigned a unique id, the “URI” (Uniform Resource Identifier). To obtain each record’s URI, first “Report” a broad set of records using Fabio. For example, “All Expense records between 01 Jan 2018 and 31 March 2018”, or “All completed Projects”.

Once received from FreeAgent, Fabio will preview the records on screen, showing key attributes, to demonstrate which records meet the criteria. Then, the User has the option to “Download CSV”, containing all the attributes of each matching record, including each record’s unique URI, to a local CSV file.

¹ Such as Project names, Contacts, Claimants, etc – if they are not being defined by Fabio as part of the upload.

The User may then edit this local CSV file, to specify exactly which records to delete (by deleting the “%%” characters to uncommenting the required lines). Finally, by uploading this modified file for reprocessing, Fabio will quickly delete the selected records in bulk.



Note: Only the URI attribute is needed to delete any record. However, all attributes are downloaded for exported records, in order to provide the User with a simple mechanism to create new records, potentially with slightly different attribute values (eg. Change the project name, or Recharge Expenses), or export data for external applications.

6. File Format

6.1 File Format Summary

Fabio uses a Comma Separated Values (CSV) data file format as input, which may be created a simple text editor or spreadsheet program.

The Fabio data file format has the following row constructs:

Row Construct	Description
File identifier	Row 1 must be: " FABIO,FORMAT,2 " This identifies your file as a Fabio data file, and tells Fabio which parser to use.
%% Comments	Rows starting with "%%" are treated comments – such rows are ignored. Also, columns starting "%%" in a record template are treated as comments too – such columns are ignored.
[RECORD]::[ACTION], [attribute],...	Defines the record template for the order of the attributes for a RECORD type in the DATA rows that follow. [RECORD] is one of: CONTACT TASK PROJECT EXPENSE TIMESLIP BILL INVOICE [ACTION] is either: ADD DELETE [attribute] defines the set of parameters for the following DATA rows. Multiple template rows are permitted throughout a single file, to define separate sections of record types. <i>eg. A data file could contain a section of foreign expenses, a section of rebilled expenses, a section of mileage claims, a section of timeslips, and a section of invoices, etc.</i>
DATA	Defines the attributes values, for each new record being added to FreeAgent. The order of attributes in the DATA rows <i>must</i> match the preceding record template definition.
ITEM	Defines the attributes values, for additional items contained within a multi-line record. <i>eg. A newly-created INVOICE may have several line items being invoiced within it.</i>

6.2 Example File Format

A simple Fabio data to create two expense records and an invoice with two line items could look like:

```
FABIO, FORMAT, 2
%% This is a simple file to demonstrate Fabio row constructs
EXPENSE::ADD, category, dated_on, description, %% supplier, gross_value
DATA, Postage, 05-MAR-18, Widget shipping, Royal mail, 14.50
DATA, Travel, 06-MAR-18, Tube to Zone 1, TFL, GBP, 4.90
INVOICE::ADD, mark_as, contact, dated_on, item::description, item::price
DATA, Sent, SmallBizCo, 30-MAR-18, Design services, 150
ITEM,,,Mileage,17.50
```

Editing the values in a spreadsheet, makes the process easier to visualise:

FABIO	FORMAT	2			
%% This is a simple file to demonstrate Fabio row constructs					
EXPENSE::ADD	category	dated_on	description	%% supplier	gross_value
DATA	Postage	05-MAR-18	Widget shipping	Royal mail	14.50
DATA	Travel	06-MAR-18	Tube to Zone 1	TFL	4.90
INVOICE::ADD	mark_as	contact	dated_on	item::description	item::price
DATA	Sent	SmallBizCo	30-MAR-18	Design services	150
ITEM				Mileage	17.50



...just remember to **“Save As... CSV (Comma delimited)”**!

More example data files are provided on the getfabio.co.uk website, that you can adopt and adapt to suit your needs.

6.3 Record Dependencies

Fabio creates records in FreeAgent in the order they appear in the Fabio data file. As such, Fabio can create a new CONTACT in FreeAgent, then create a PROJECT for that contact, then create an INVOICE against that Project, all within the same data file (or if you prefer, multiple data files). But, the order of record types being processed is important if there are dependencies between the records. We recommend structuring Fabio data files in the following order:

- CONTACT,**
- PROJECT,**
- TASK,**
- TIMESLIP,**
- EXPENSE** (also used for Mileage),
- BILL,** and
- INVOICE.**

6.4 File Data File Limits

Fabio data files have a maximum number of records permitted, to prevent FreeAgent falling over. The limit is configured to balance stability against usability.

Subscription Type	Maximum Number of Records per File
Free Trial	3
Paid subscriptions	240

7. Record Format

7.1 Record Format Summary

Records have attributes of the following types:

Type	Description
URI	The FreeAgent-generated "uniform resource identifier" defining the unique identification of a particular record. <i>Used by Fabio when bulk deleting specific FreeAgent records.</i>
Boolean	One of 1 Y Yes T <u>True</u> or 0 N No F False <i>The value is not case sensitive. The default value, if not specified in the data file, is <u>underlined</u>.</i>
Integer	A whole number. eg. " 2 ", " 15 ", " 47 "
Decimal	A number, with decimal fraction. eg. " 2.30 ", " 4.7 ", " 19.75 "
String	An alpha-numeric sequence of characters. Spaces are permitted. <i>Warning: A comma "," in string value will be interpreted as a field separator.</i>
Enumerated	A list of possible string values. eg. " <u>Car</u> ", " Motorbike ", " Bicycle ". <i>Only one from this list of values is acceptable. The value is not case sensitive. Default underlined.</i>
Predefined	A string that must match a value previously setup in FreeAgent. <i>Fabio may be used to setup certain predefined values (eg. Task name is created by a TASK:ADD record), before they are used by other record types (eg. Using a Task name within a TIMESLIP::ADD record)</i>
Date	A date, past, present or future in the format: DD- MMM -YY. eg. 02-APR-19

7.2 Record Attributes

7.2.1 CONTACT

Req'd	Attribute	Description	Type
?	url	Unique record identifier. <i>Reported for existing records, and only used to delete records.</i>	URI
?	first_name	First name. <i>Required if organisation_name is not specified</i>	String
?	last_name	Last name. <i>Required if organisation_name is not specified</i>	String
?	organisation_name	Organisation name. <i>Required if first_name and last_name are not specified</i>	String
Additional attributes available to FreeAgent users with Contacts & Projects permission			
	email	Email address	String
	billing_email	Billing email address	String
	phone_number	Telephone number	String
	mobile	Mobile phone number	String
	address1	First line of the address	String
	address2	Second line of the address	String
	address3	Third line of the address	String
	town	Town	String
	region	Country, Region or State	String
	postcode	Post Code, Zip Code	String
	country	Country	String
	uses_contact_invoice_sequence	True if using contact-level invoice sequence, False otherwise <i>Can be overridden by project-level sequences</i>	Boolean
	contact_name_on_invoices	True if invoices should show the contact name <i>and</i> organization name, False otherwise	Boolean
	charge_sales_tax	One of the following: Auto Always Never	Enumerated
	sales_tax_registration_number	If applicable, and needing to be displayed on invoices. <i>Eg. VAT registration number. Also required if EC Sales of Goods or Services to this contact need to be reported.</i>	String
	status	One of the following: Active Hidden	Enumerated
	locale	Written language of associated Invoices / Estimates. Eg. Use " cz " for Invoices written in Czech	Enumerated (See below)

Language	locale
Brasilian Portugese	pt-BR
Bulgarian	bg
Catalan	ca
Czech	cz
Danish	dk
Dutch	nl
Dutch (in Belgium)	nl-BE
English	en
English (in United States)	en-US
Estonian	et
Finnish	fi
French	fr
French (in Belgium)	fr-BE
French (in Canada)	fr-CA

Language (continued)	locale
German	de
Icelandic	is
Italian	it
Latvian	lv-LV
Norwegian	nk
Polish	pl-PL
Romanian	ro
Russian	ru
Serbian	rs
Slovak	sk
Spanish	es
Swedish	se
Turkish	tr
Welsh	cy

7.2.2 PROJECT

Req'd	Attribute	Description	Type
?	url	Unique record identifier. <i>Reported for existing records, and only used to delete records.</i>	URI
✓	contact	Contact to bill for the project. Specified as either "Firstname Lastname" or "Organisation", or both, separated with a " " (bar). eg. "Fred Blogs Anycorp".	Predefined
✓	name	Free-text project name	String
	status	One of the following: Active Completed Cancelled Hidden	Enumerated
	contract_po_reference	Contract / Purchase order number	String
	uses_project_invoice_sequence	True if invoice sequence is project-level, False otherwise	Boolean
	currency	Project's ISO Currency code eg. USD , GBP , EUR , etc	Enumerated
	budget	Leave as zero if this project doesn't have a budget	Decimal
	budget_units	One of the following: Hours Days Monetary (ex-VAT)	Enumerated
	hours_per_day	Hours per day in decimal form. eg. <i>For 1hr30 mins, use "1.5"</i>	Decimal
	normal_billing_rate	Normal billing rate	Decimal
	billing_period	Unit for the normal_billing_rate : Hour Day	Enumerated
	is_ir35	True if this project comes within the scope of HMRC's IR35, False otherwise	Boolean
	starts_on	Start date of the project. <i>If undefined, the project does not have a start date.</i>	Date
	ends_on	End date of the project. <i>If undefined, the project does not have an end date.</i>	Date

7.2.3 TASK

Req'd	Attribute	Description	Type
?	url	Unique record identifier. <i>Reported for existing records, and only used to delete records.</i>	URI
✓	name	Task name	String
✓	project	Create task against specified project name	Predefined
	is_billable	True if charging your clients for the task, False otherwise	Boolean
	status	One of the following: Active Completed Hidden	Enumerated
Additional attributes available to users with Contacts & Projects permission			
	billing_rate	The rate at which the project is billed, per billing_period	Decimal
	billing_period	One of the following: Day Hour	Enumerated

7.2.4 TIMESLIP

Req'd	Attribute	Description	Type
?	url	Unique record identifier. <i>Reported for existing records, and only used to delete records.</i>	URI
?	user	User name that completed the task (must be pre-defined with the FreeAgent GUI). <i>Required if Fabio user is a Practice Account Manager.</i> <i>Defaults to logged in User with single companies.</i>	Predefined
✓	dated_on	Date of the timeslip	Date
✓	project	Project name against which the task was completed.	Predefined
✓	task	Task name that was completed.	Predefined
✓	hours	Number of hours worked, as a decimal. <i>eg. For 1hr 30mins, use "1.5"</i>	Decimal
	comment	Free-text comment against the task	String

7.2.5 EXPENSE

Req'd	Attribute	Description	Type
?	url	Unique record identifier. <i>Reported for existing records, and only used to delete records.</i>	URI
?	user	Expense claimant. <i>Required if Fabio user is a Practice Account Manager. Defaults to logged in User with single companies.</i>	Predefined
✓	category	One of FreeAgent's built-in or user-defined accounting categories, or Mileage . eg. Postage, Stationery <i>View / edit categories within FreeAgent from "Settings" → "Income & Spending Categories".</i>	Predefined
✓	dated_on	Date when expense was incurred.	Date
✓	description	Free-text description of the Expense. eg. <i>"Shipping charge for mini-widget"</i>	String
	currency	Expense's ISO currency code. eg. GBP, EUR, USD, MNT , etc. <i>Default is "GBP".</i>	Enumerated
?	gross_value	Total value, including sales tax, expressed in the individual Expense's specified currency. Use a <i>negative value</i> to create an Expense Refund. eg. <i>"-10.00"</i> <i>Required if category is not Mileage</i>	Decimal
	sales_tax_rate	The sales tax rate if specified manually. eg. 5 for 5% sales tax <i>The value must be a valid sales tax rate. eg. 0, 5, 20.</i> <i>If undefined, the sales tax rate used is automatically determined by the expense category</i>	Decimal
	manual_sales_tax_amount	The sales tax amount for the transaction, in the company's <i>native currency</i> , when not calculated by the sales_tax_rate . <i>If both sales_tax_rate and manual_sales_tax_amount are specified for a single record, then only the manual_sales_tax_amount is used, and sales_tax_rate is ignored.</i>	Decimal
	receipt_reference	Receipt reference, as printed on the receipt.	String
Attributes for Project-related expenses			
	project	Project name to rebill	Predefined
	rebill_type	If rebilling a project, select one of: Cost Markup Price <i>If "", then not rebilled.</i> <i>To rebill mileage to a project, use Cost with the rate specified in rebill_mileage_rate</i>	Enumerated

		<i>(This is an anomaly in FreeAgent; you'd really expect the <code>rebill_type</code> to be "price" for mileage!)</i>	
	<code>rebill_factor</code>	How much to rebill for Required when <code>rebill_type</code> is Markup or Price Markup is a percentage. eg. "12" will rebill at 12% markup. Price is a value (not a factor, again odd FreeAgent behaviour). Eg "10" will rebill at £10.00	Decimal
Attributes for Foreign currency expenses			
	<code>native_gross_value</code>	Total value in the company's native currency Automatically converted by FreeAgent from gross_value , using current exchange rates collected automatically by FreeAgent, unless specified.	Decimal
Additional attributes for Mileage claims, if category is "Mileage".			
✓	<code>mileage</code>	Number of miles travelled. HMRC requires the nearest whole number, not decimals.	Integer
✓	<code>vehicle_type</code>	One of the following: Car Motorcycle Bicycle	Enumerated
	<code>reclaim_mileage</code>	One of the following: False Don't reclaim, just rebill True At HMRC's Approved Mileage Allowance Payments "AMAP" rate (default)	Boolean
	<code>have_vat_receipt</code>	True if having a VAT receipt when reclaiming, False otherwise	Boolean
?	<code>engine_type</code>	Applicable if vehicle_type is Car or Motorcycle : Petrol Diesel LPG	Enumerated
?	<code>engine_size</code>	Applicable if vehicle_type is Car : For Petrol : Up to 1400cc 1401-2000cc Over 2000cc For Diesel : Up to 1600cc 1601-2000cc Over 2000cc For LPG : Up to 1400cc 1401-2000cc Over 2000cc	Enumerated
	<code>rebill_mileage_rate</code>	Rate per mile / kilometre at which mileage is being rebilled to a project	Decimal

7.2.6 BILL

Req'd	Attribute	Description	Type
?	url	Unique record identifier. <i>Reported for existing records, and only used to delete records.</i>	URI
✓	contact	Contact being billed. Specified as either "Firstname Lastname" or "Organisation", or both, separated with a " " (bar). eg. "Fred Blogs Anycorp".	Predefined
✓	reference	Free-text reference	String
✓	dated_on	Date of bill	Date
✓	due_on	Due date of bill	Date
✓	total_value	Total value in the company's native currency <i>Use negative value for a Bill Refund</i>	Decimal
✓	category	Bill's accounting category	Predefined
	comments	Free-text comments	String
	project	Project billed for	Predefined
?	rebill_type	One of the following, if rebilling to a project: Cost Markup Price	Enumerated
?	rebill_factor	How much to rebill for <i>Required when rebill_type is Markup or Price</i>	Decimal
Sales tax attributes			
	sales_tax_rate	The sales tax rate, if specified manually. <i>Otherwise, use the rate determined by the bill expense's category.</i>	Decimal
	manual_sales_tax_amount	Sales tax specified manually, as a value.	Decimal

7.2.7 INVOICE

Req'd	Attribute	Description	Type
?	url	Unique record identifier. Reported for existing records, and only used to delete records.	URI
	mark_as	Invoice status. One of: Draft Sent	Enumerated
✓	contact	The contact being invoiced. Specified as either "Firstname Lastname" or "Organisation", or both, separated with a " " (bar). eg. "Fred Blogs Anycorp".	Predefined
	project	The project being invoiced	Predefined
	reference	Invoice reference (using global invoice sequencing) <i>If omitted, next invoice reference will be used</i>	String
✓	dated_on	Date of invoice	Date
	payment_terms_in_days	Set to 0 (zero) to display ' Due on Receipt ' on the invoice (Default)	Integer
	currency	Invoice's ISO currency code <i>Defaults to the company's native currency</i>	Enumerated
More options for Invoices			
	comments	Additional text added to the bottom of the invoice	String
	send_new_invoice_emails	True to email this invoice automatically using your default template, False otherwise <i>Can only set to true if templates exist</i>	Boolean
	send_reminder_emails	True to email payment reminders if the invoice goes unpaid, False otherwise <i>Can only set to true if templates exist</i>	Boolean
	send_thank_you_emails	True to email a Thank You once this invoice has been paid, False otherwise <i>Can only set to true if templates exist</i>	Boolean
	discount_percent	The discount applied across the whole invoice	Decimal
	client_contact_name	This name will override the default contact name on this invoice	String
	po_reference	This PO reference will override any PO set for the project	String
	payment_terms	This will override the normal payment terms and invoice due date	String
	omit_header	True to omit your logo and company address, False otherwise	Boolean
	show_project_name	True to display the project name in the Other Information section, False otherwise	Boolean
	always_show_bic_and_iban	True to always display the BIC and IBAN numbers, if defined, on the invoice, False otherwise	Boolean

Invoice ITEM Attributes			
	item::quantity	Quantity of the item_type . Defaults to "1" if not specified.	Decimal
	item::item_type	One of the following: Hours Days Weeks Months Years or Products Services Training Expenses Comment Bills Discount Credit VAT Stock or "" (blank for "No Unit")	Enumerated
✓	item::description	Invoice item description	String
?	item::price	Unit price <i>Required if invoice_item is given and item_type is not time-based</i>	Decimal
	item::sales_tax_rate	The sales tax rate, if specified manually. Otherwise, "0" is used.	Decimal
?	item::stock_item	Stock item being invoiced, if item_type is Stock	Predefined

LAST PAGE

We hope you find Fabio useful and it frees you from hours of business admin!

We'd love to hear your feedback. Please contact us on mail@getfabio.co.uk