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connect

Verizon Connect REVEAL Fuel Card Specifications and User Guide

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Overview

Fuel costs are a great opportunity for savings within your organization. Verizon Connect fuel reports compile information from your fuel card transactions along with vehicle activity, showing ways to save and set benchmarks, reduce overall fuel consumption, and identify fuel theft.

Verizon Connect offers a simple fuel card integration process. We make it easy for you to provide us with your card transactions – *no matter who your fuel card provider is*.

Getting Started

The following steps are required to complete a successful fuel card transaction with REVEAL.

Part one: pre-integration check
1. Follow the development guidelines
2. Create the file template as per the file format specified in this template
3. Verify that data connection is open.

Part two: Check and confirm
4. Daily Transaction data posting
5. Check your report

Verify Transaction Data file format

See data format page for more details
See troubleshooting for any issues

Setting up FTP Link

1. You can create the file using the REVEAL Fuel Card file format specified in this document. You can match the file data layout in one of the following ways:

    a. Send your Fuel Card provider this file format to convert their fuel transaction file into the REVEAL Fuel Card file format.

    b. Complete the conversion using your own development/IT resources to match the fuel transaction file with the REVEAL Fuel Card file format.

2. Verizon Connect will send you the credentials needed to access the REVEAL FTP folder similar to the example below.

> *Hello,*
>
> *Prepare the file using development guidelines and post your file on the FTP credentials shared below. Files may be manually transferred , or a job can be scheduled to post the files*
>
> *Customer Details:*
> *Customer name: Bulk Upload*
> *Company name: RIP_QA*
> *Account number: 5306*
> *Request Initiated as of 27 Jan 2020*
>
> *Server Details:*
>
> *US-*
>
> *SFTP: ftp.us.vzconnect.com*
>
> *SFTP Control Channel Port: 22*
> *Username: FCI-RIP_QA_1*
> *Password: vuRACenzoh8fwbgO*
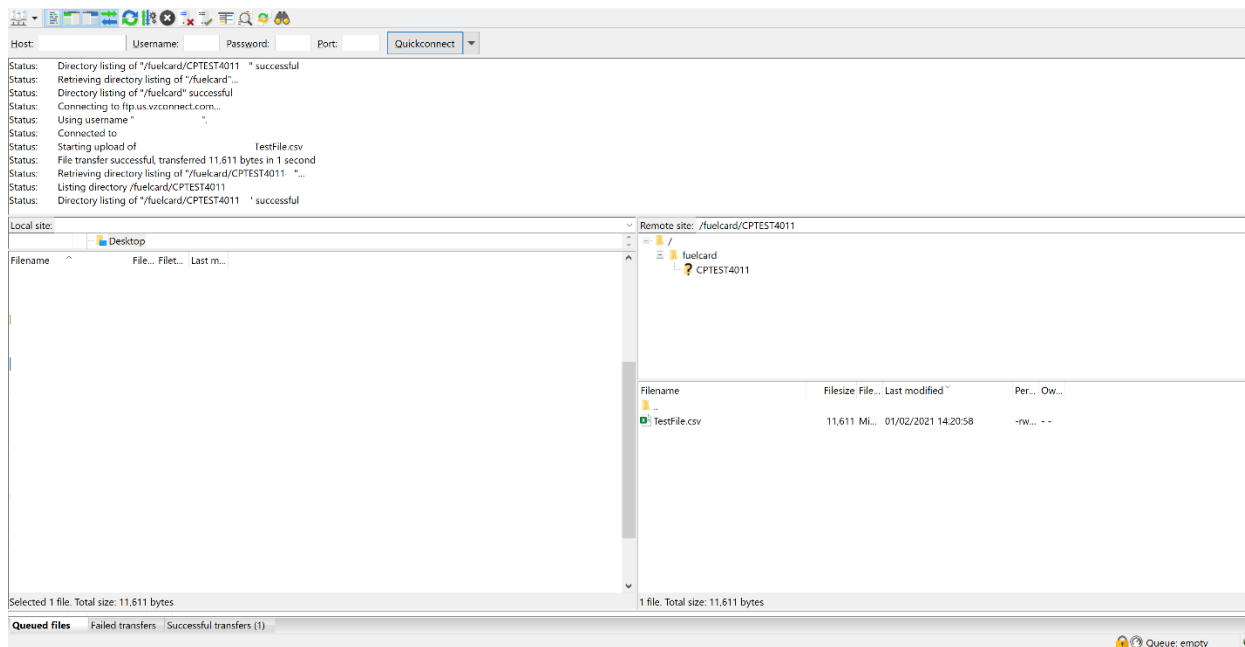>
> *EU -*
>
> *SFTP: ftp.eu.vzconnect.com*

SFTP Control Channel Port: 22
Username: FCI-RIP_QA_1
Password: vuRACenzoh8fwbgO

3. Post your file into the REVEAL FTP site.

   You can manually transfer this file, or set up a scheduled job to post data files to Verizon Connect automatically. The files will
   Verizon Connect will not be able to process files that are not posted correctly. The files must be posted in the subfolder under the "fuel card" folder

Security Measures
- Verizon Connect recommends transport-layer security (SFTP).

- Verizon Connect requires a strong username/password to be used for SFTP protocol
- For additional security - Verizon Connect recommends **PGP** Encryption using a public-private key pair

Process frequency

The Verizon Connect will process the files FTP site on a daily basis.

File Structure

The REVEAL fuel card file format is a comma-separated value (CSV) format following the **RFC 4180 standard**. Please refer to RFC 4180 for complete and proper formatting rules, but for a brief overview: line breaks are defined as CRLF, the header row is optional, fields that contain special characters must be enclosed in double-quotes, and double-quotes must be escaped with double-quotes. Any string data that exceeds their maximum length will be truncated. Rows don't need to be in any special order.

Fields

Fields 1-4 are used for identification within REVEAL.
Fields 5-8 will help us define and interpret the remaining data.
Fields 14-19 are not necessary if fields 23 and 24 are provided.

The file must contain at least one fuel transaction or it will be ignored.

Field Name	Data type	Mandatory?	Max Size	Examples	Description
			Fields 1-4 are used for identification within REVEAL		
1. Account Identifier	Text	Mandatory	19	123456884 XE123	This is the unique account identifier given by the Fuel Card provider. If no fuel card account identifier is available, then the account identifier can be any value unique to this customer and fuel card provider. This identifier will be mapped to an REVEAL Account. Anything longer than max size will be truncated.

2. Fuel Card Identifier	Text	Depends	24	9978	This is the unique value that matches to the "Fuel Card Id" field found inside the "Vehicle Management" page. This identifier must be unique across the customer's fleet. **You must supply this value or a valid Vehicle Identifier.**
3. Vehicle Identifier	Text	Depends	45	CO44593	This is the unique value that matches to the "Vehicle Number" found inside the "Vehicle Management" page. This identifier must be unique across the customer's fleet. **You must supply this value or a valid Fuel Card Identifier.**
4. Fuel Site Identifier	Text	Optional	50	FUEL_SITE_001 Sheetz #123	This is the unique value that identifies where the purchase happened. If no value is given, REVEAL will use the field 13 "Fuel Site Name" and field 14 "Fuel Site Address 1" together to uniquely identify the fuel site.
Fields 5-8 will help us define and interpret the remaining data.					
5. Time Zone Indicator	Text	Mandatory	N.A.	MPT UTC NONE	This field indicates what time zone exist for the "Transaction Time" field. The valid values are: **MPT** = Merchant's Purchase Time or Pump time. (This means REVEAL will look up the time zone from the given Fuel Site Address or given coordinate). **UTC** = Universal Time. **NONE** = No time zone information was given. Use the offset information provided in the "Transaction Time" field. If an invalid time zone is provided then the purchase will be skipped.
6. Currency Units	Text	Mandatory	N.A.	USD EUR GBP AUD	This defines what currency is used for the "Unit Cost" field (10) and "Purchase Cost" field (12). Defined by *ISO 4217* Currency Codes.

					See xxx for full list
7. Distance Units	Text	Mandatory	N.A.	MILE KM	This defines the length units for the "Odometer" field (22). The valid values are: **MILE** = Miles **KM** = Kilometers If anything other than "MILE" is provided, "KM" will be assumed.
8. Volume Units	Text	Mandatory		GAL_US L GAL NA	This defines the volume units for the "Purchase Volume" and "Unit Cost" fields. The valid values are: GAL_US = U.S. Gallon GAL = Imperial Gallon L = Liter NA = Not Applicable (for non-fuel purchases)
9. Transaction Time	Date/Time	Mandatory		2016-01-11T17:31:10+00:00 2016-01-11T17:31:10Z 2008-05-01 7:34:42Z 2015-11-25 15:00+6:30 2015-11-25 15:00:01-5:00 2015-11-25 15:00:01 2015-11-25T10:00 2016-01-25 15:00:01 yyyy-MM-dd**T**hh:mm:ss**+**hh:mm yyyy-MM-dd**T**hh:mm:ss**Z** yyyy-MM-dd hh:mm:ss**+**hh:mm yyyy-MM-dd**T**hh:mm:ss yyyy-MM-dd hh:mm:ss yyyy-MM-dd**T**hh:mm yyyy-MM-dd hh:mm	This indicates when a purchase occurs. The supported formats comprise a subset of *ISO 8601* accepted formats. The date time provided must contain the date and the time, i.e. hours, minutes and seconds, being the latter optional but preferable. Formats without the time zone offset showing below Are only accepted if the field "Time Zone Indicator" (field 5) is UTC or MPT. • 2015-11-25T10:00 • 2016-01-25 15:00:01
Fields 10-12 The product of Unit Cost and Purchase Volume should be equal to the Purchase Cost **Unit Cost * Purchase Volume** (should) **= Purchase Cost** **Verizon Connect does not verify the accuracy relationships between these three fields and will store what is provided**
10. Unit Cost	Decimal	Mandatory		3.399	Cost per one volume unit.

11. Purchase Volume/Quantity	Decimal	Mandatory		11.211	Volume of the fuel purchased. For non-fuel purchases this is number of items purchased.
12. Purchase Cost	Decimal	Mandatory		33.751	Total cost of the purchase (Unit Cost * Purchase Volume). Value must be greater than 0 for the purchase to be processed.
13. Fuel Site Name	Text	Mandatory	64	SPEEDWAY #123	Name of the Gas station or Merchant store where the purchase occurred. Does not have to be unique
Fields 14-19 are not necessary if fields 23 and 24 are provided.					
14. Fuel Site Address 1	Text	Mandatory	128	123 Cherry St.	Fuel site's Address (door number and street name)
15. Fuel Site Address 2	Text	Optional	128		Fuel site's Address (line 2)
16. Fuel Site City	Text	Mandatory	64	Cleveland	Fuel site's City
17. Fuel Site State	Text	Mandatory	16	OH	Fuel site's State/Province/Territory/Region
18. Fuel Site Postal Code	Text	Mandatory	10	44139	Fuel site's Postal Code (Zip code)
19. Fuel Site Country	Text	Mandatory	2	US	Fuel site's Country. Defined by (**ISO 3166-1 alpha-2**)
20. Purchase Type	Text	Mandatory	1	F O	F = Fuel O = Other Note: Anything other than "F" will be treated as "O".
21. Product Description	Text	Optional	48	87 Octane	Description of the purchase, for fuel it should describe the octane level or diesel type used. You can also use this field to distinguish between Tractor and Trailer/Reefer purchases.
22. Odometer	Decimal	Optional		123456	Odometer or Hubometer value that comes with many fuel card transactions
23. Latitude	Decimal	Optional	10	40.365277	This is the latitude of the Fuel Site physical location. This can be included in lieu of or in addition to the Fuel Site Address fields noted above to allow Verizon Connect to mark and track activity around the physical fuel site. If you enter a lat/long we will use this first, if lat/long is not provided, we will use the fuel site address fields. If fuel site

					address fields are not provided an error message will be sent. We will support the values -90.00 and 90.00
24. Longitude	Decimal	Optional	10	-82.66925	This is the longitude of the Fuel Site physical location. This can be included in lieu of or in addition to the Fuel Site Address fields noted above to allow Verizon Connect to mark and track activity around the physical fuel site. If you enter a lat/long we will use this first, if lat/long is not provided, we will use the fuel site address fields. If fuel site address fields are not provided an error message will be sent. We will support the values -180.00 and 180.00

Fields 1-4 are used for identification within REVEAL. Fields 5-8 will help us define and interpret the remaining data. Fields 14-19 are not necessary if fields 23 and 24 are provided.

Note : The CSV template allows you to assign fuel cards only. Open the CSV file in a text editor (Notepad or TextEdit). If the partial account number entered starts with one or more zeros, EXCEL removes them and the card will not be recognize

Problems Processing a File
If a Purchase's vehicle isn't setup in REVEAL:
- The purchase is archived for daily rechecking
- Users will have 3 weeks (since the time of the file being processed) to setup any vehicles necessary
- If REVEAL has any problems parsing or processing a file:
- The file is archived for later investigation
- Any errors related to the failure are logged
- REVEAL's dev support team are immediately notified via email and the appropriate support channels are opened
- Any problems with individual purchases will get logged and stored for reprocessing

FTP Application

The FileZilla application is recommended. It is a free FTP program that transfers data files:
http://filezilla-project.org/

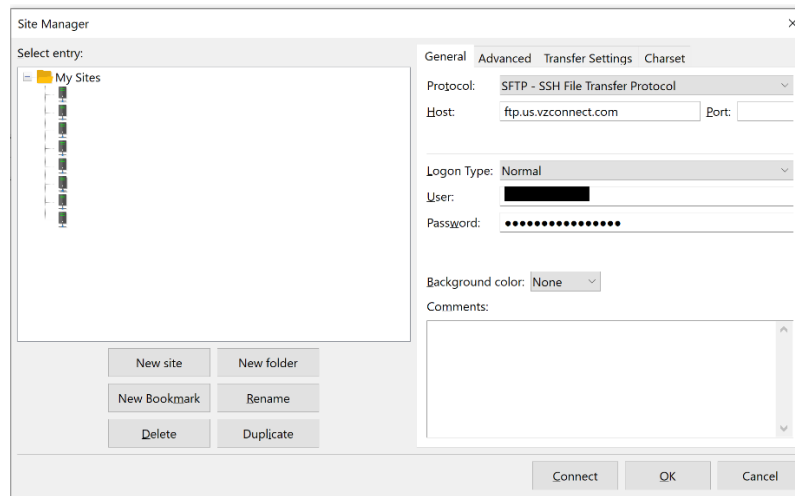*Download FileZilla Client (all platforms) >*

Download Now (sourceforge) >

The executable appears at the bottom of the screen. Run the FileZilla_Version#_win32-setup.exe file.

Please note the following when setting up connections to the FTP site:

*Each file must have a unique file name and in a **.CSV format** (created using Microsoft Excel).*

In FileZilla, connect through **File > Site Manager** and click **New Site.**

- Set **Host** as ftp.us.vzconnect.com for **US** customers.
- Set **Host** as ftp.eu.vzconnect.com for **EU** customers.
- Set Logon Type as **Normal**.
- Enter the username sent to you from Verizon Connect in the **User** field.
- Enter the login password sent to you from Verizon Connect in the **Password** field.
- Click **Connect**.

Troubleshooting

If you have issues connecting into FileZilla, please try each of the following options before reporting a problem:

a. Verify the **Username** and **Password** (please be aware these fields are case-sensitive).

b. Contact your network administrator and verify that port 22 (commonly used for SFTP) are open

Supported Currency

USD	EUR	GBP	CAD	MXN	CHF	AUD
NOK	SEK	DKK	PLN	ISK	BRL	NZD
ARS	BOB	CLP	PYG	PEN	UYU	VEF
RUB	ZAR	HKD	JPY	CNY	INR	HRK
BGN	CZK	HUF	LTL	LVL	RON	TRY

- The received transactions are converted and stored in all the above supported currencies
- We use OANDA as the currency converter
- The rates are stored in all supported currencies based on the day the transactions are received
- While running the purchase reports, the stored rates are pulled based on the chosen currency