


1 Fuel Management

Securysat provides 3 optional services for Fuel Management:

- **Fuel Monitor** : real time tracking of the fuel level + consumption report
- **Fuel Siphon** : siphoning detection with automatic alerts + reports
- **Fuel Card** : manual and/or automatic import of fuel expenses/refuels

The reports and the dashboard for these specific services are accessible via the menu  at the top right corner of your screen. A new Web page will open when you click on “Fuel” and it will display more or less reports, depending on your active services.

The analysed data are coming from several sources:

- Securysat Fuel Tracker installed in the vehicle and connected to the gauge: the Fuel Tracker captures the real fuel level of the vehicle and collects this level in permanence; The user of Securysat must only register the vehicle tank capacity online, in MENU-MANAGEMENT-Vehicles, this to get fuel data in litres and not only in %, and to allow the application to generate reports
- The vehicle theoretical consumption registered by the user of Securysat in MENU-MANAGEMENT-Vehicles
- The refuels/expenses imported by the user of Securysat, if the Fuel Card service has been subscribed

Based on these sources, **Securysat application provides access to the following functions:**

- **Real time tracking of the fuel level on board for each vehicle**
- **Comparison between real fuel consumption and theoretical consumption**
- **Comparison of field refuels data with imported refuels data (records of expenses)**
- **Alert generation for all siphoning events detected**
- **Suspicious cases notification: overconsumption and fuel theft events**

A fuel dashboard is also provided for an easier analysis by the user of Securysat.

Prerequisites:

- SecurysatFleet Lift or Full (GPS device)
- Fuel Tracker hardware connected to SecurysatFleet and to the vehicle gauge

1.1 [The dashboard](#)

MENU-DASHBOARD

The dashboard contains 4 graphs, always for a **3 months period** for the vehicles selected in the list



1. The graph “Volume” provides an overview of the refuels detected by the Fuel Tracker hardware and those encoded/ imported manually. By pointing the cursor on a month, you can display the number of litres.
2. The graph “Deviations” shows the difference between the refuels detected by the Fuel Tracker hardware and those encoded/ imported manually. By pointing the cursor on a month, the difference in litres is displayed.
3. The graph “Consumption” shows the consumption detected by the Fuel Tracker hardware and compares it with the theoretical consumption. By pointing the cursor on a month, the average consumption L/100 and the amount of consumed litres are indicated.
4. The graph “Sypho” shows the syphonings detected by the Fuel Tracker hardware. By pointing the cursor on a month, the amount of syphoned litres is displayed.

1.2 Management

1.2.1 Manual encoding of refuels/expenses

MENU-MANAGEMENT-Import of data

Encode the refuel data based on fuel cards or other documents in your possession:

The screenshot shows the 'Import données carburant' interface. At the top, there are two radio buttons: 'A partir d'un fichier' (selected) and 'Entrée manuelle'. Below this, there are two buttons: 'Ajouter des enregistrements' and 'Editer des enregistrements'. A 'Nombre de rangs à ajouter:' field is set to '1', with an 'Ajouter des lignes' button. Below is a table with the following columns: 'Numero de carte', 'plaque', 'Chauffeur', 'Référence plein', 'Date', 'Heure', 'Tanking entry', 'Quantité', 'Prix total', 'Kilométrage', and 'Adresse'. The first row contains the following data: '708337147', '1FH1877', 'Pierre Quiro', an empty field, '12/09/2016', an empty field, '--Select tr', '0', '0', '0', and an empty field. A 'Sauvegarder' button is at the bottom right.

Available fields:

- Card number (optional). The cards are defined in Securysat application (MENU-MANAGEMENT-Fuel cards).
- Number plate (obligatory)
- Driver (optional)
- Reference of the refuel (optional)
- Date (obligatory)
- Time (obligatory)
- Refuel detected: if you did not enter the time, a list with the times of the detected refuels is shown. Select a time. This time will be copied in the field time and the mileage of the vehicle at the moment of the refuel will be automatically indicated in the field mileage
- Quantity (obligatory)
- Price (optional)
- Mileage (optional)
- Address (optional)

Those data can also be imported from a file. To do this, please use the file available online for download :

This screenshot shows the file import section. It has two radio buttons: 'A partir d'un fichier' (selected) and 'Entrée manuelle'. Below, it says 'Un template/exemple du rapport à importer peut être téléchargé [ici](#).' followed by 'Prier de remplir ce template et de le télécharger avec votre navigateur' and a 'Parcourir...' button. At the bottom, it says 'Vous serez informé par mail lorsque vos données seront disponible le plus rapidement possible'.

1.2.2 Management of tolerance thresholds

MENU-MANAGEMENT-Tolerances

In order to have a quick view on the inconsistencies in the reports of comparison of refuels and consumption, it is possible to define a percentage for the tolerance thresholds as well as to choose the colour that has to appear in the report as soon as the difference threshold is reached.

1.3 Reports

1.3.1 Refuel report based on the data from the fuel cards

1. Subject

Detailed list of refuels encoded manually or imported from fuel card data.

Prerequisites:

- Fuel cards data or any detailed fuel expenses list

2. Selection criteria

Choice vehicles

Date/time from/till

3. Detailed description

List of refuels encoded manually or imported (MENU-MANAGEMENT-import fuel data)

4. Report contents

One line per encoded refuel with choice of the following fields:

- Number beacon
- Name vehicle
- Number plate
- Driver
- Date and time
- Volume
- Mileage of the vehicle
- Address

SatID	Véhicule	plaque	Chauffeur	Date/heure GPS	Date	Heure	Volume (l.)	Kilométrage (km)	Adresse
325171	Dider Gelin	1FHV877	Pierre Quiroule	03-06-2016 08:24:00	03-06-2016	08:24:00	41.64	57515	1310 LA HULPE , Rue Brodcoorens, 56 LA HULPE
325171	Dider Gelin	1FHV877	Pierre Quiroule	09-06-2016 08:04:00	09-06-2016	08:04:00	25.01	57855	1310 LA HULPE , Rue Brodcoorens, 56 LA HULPE
325171	Dider Gelin	1FHV877	Pierre Quiroule	16-06-2016 08:10:00	16-06-2016	08:10:00	25	58063	1310 LA HULPE , Rue Brodcoorens, 56 LA HULPE
325171	Dider Gelin	1FHV877	Pierre Quiroule	20-06-2016 07:58:00	20-06-2016	07:58:00	25.02	58329	1380 OHAIN , Route de Genval OHAIN

1.3.2 [Refuel report based on the data collected on board by the Fuel Tracker hardware](#)

1. Subject

Detailed list of refuels detected automatically by the Fuel Tracker placed in the vehicle

Prerequisites:

- Fuel Tracker hardware connected to the gauge of the vehicle
- Subscription to Fuel Monitor service

2. Selection criteria

Choice vehicles

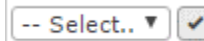
Date/time from/till

3. Detailed description

List of refuels detected by the Fuel Tracker hardware in the vehicle

Sometimes the system detects an uncertain refuel. In that case this is indicated in the column

« information ». You can then validate or reject the refuel



4. Report contents

One line per detected refuel with choice of the following fields:

- Number beacon
- Name vehicle
- Number plate
- Driver
- Date and time
- Volume
- Mileage of the vehicle
- Address
- Status of the tracker
- Information about the refuel
- Status (validate or reject in case of uncertain refuel)

SatID	Vehicule	plaque	Chauffeur	Date/heure GF	Date	Heure	Volume (l.)	Kilométrage (km)	Adresse	Statut tracker cart	Information	Statut
330002	Didier Bennert (S_330002)	548ALC	dder bennert	18-06-2016 09:49:10	18-06-2016	09:49:10	36	174669	Avenue de Mai - Mellaan 161 Woluwe-Saint-Lambert - 5101Lambrecht/Woluwe	Normal		
330002	Didier Bennert (S_330002)	548ALC	dder bennert	18-06-2016 11:52:44	18-06-2016	11:52:44	18	174688	Oppense - Avenue d'Oppem 50 Wizenbeel-Oppem <small>Rue Gaston Vanhulst - 5101 Lambrecht/Woluwe 116</small>	Normal	Plen difficile à distinguer	-- Select.. ✓

1.3.3 [Comparison report of refuels](#)

1. Subject

Compare the refuels detected by the Fuel Tracker hardware and the encoded/imported data, with a difference index.

Prerequisites:

- Fuel Tracker hardware placed in the vehicle and connected to the gauge
- Fuel cards data or detailed data for all fuel expenses (imported data)
- Subscriptions to Fuel Monitor AND Fuel Card services

2. Selection criteria

Choice vehicles

Date/time from/till

3. Detailed description

This report allows you to detect anomalies between the refuels detected by the Fuel Tracker hardware and the refuels registered by the user based on fuel cards or other documents.

The field « difference volume » gives the difference percentage between both data. A colour and tolerance threshold can be defined (MENU-MANAGEMENT-Tolerance threshold). This allows you to visually detect very quickly inconsistencies.

4. Report contents

One line per detected refuel with choice of the following fields:

- Number beacon
- Name vehicle
- Number plate
- Driver
- Imported data: Date and time/Volume/Address
- Detected data: Date and time/Volume/Address/comment in case of uncertain refuel)
- % difference

01/06/2016 00:00		31/07/2016 23:59		Afficher	Télécharger CSV	Télécharger PDF	Mise à jour des	Rapport de plein basé sur les données des cartes carburant (importées)				Rapport de plein basé sur les données du moniteur carburant (tracker carburant)				Comparaison
SatID	Véhicule	plaque	Chauffeur	Date/heure	Volume	Adresse	Date/heure	Volume	Adresse	Commentaire	Différence volume[%]					
325171	Dider Gelin	1RH877	Pierre Quiroule	29-07-2016 16:01:00	38		29-07-2016 16:01:00	37.44	Chaussée de Louvain 1380, Ohain, Belgium		1.5					
325171	Dider Gelin	1RH877	Pierre Quiroule	22-07-2016 16:01:00	40		22-07-2016 16:01:00	38.48	Chaussée de Louvain 1380, Ohain, Belgium		3.95					
325171	Dider Gelin	1RH877	Pierre Quiroule	14-07-2016 08:32:00	42		14-07-2016 08:32:00	42.12	Chaussée de Haecht Haachtsesteenweg 1130, Ixelles, Belgium		0.29					

1.3.4 Report fuel tracking

1. Subject

Tracking in real time of the fuel level on board

Prerequisites:

- Fuel Tracker hardware connected to the gauge
- Subscription to Fuel Monitor service

2. Selection criteria

Choice vehicles

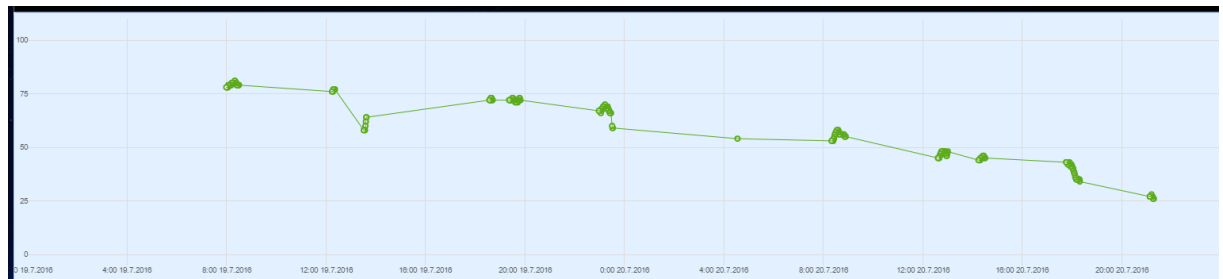
Date/time from/till

3. Detailed description

This report allows visualizing the evolution of the fuel level in the vehicle by means of a graph. It is possible to zoom in on the graph and visualize the position for the fuel data on the map.

4. Report contents

The first part gives a graph with the evolution of the fuel level during the requested period for the selected vehicle.



Place the cursor on a position to see the details (time position, fuel volume in the vehicle, name of vehicle).

A left mouse click allows you to visualize a location on the map.

The second part of the report gives a list with all the information such as address, remaining volume, remaining litres, mileage of the vehicle.

SatID	Véhicule	plaque	Chauffeur	Date/heure GP	Date	Heure	Adresse	Niveau carburant	Volume (l.)	Type de carburant	Kilométrage (km)
325171	Didier Gelin	1FHV877	Pierre Quiroule	19-07-2016 07:58:58	19-07-2016	07:58:58	Rue de Genleau Lasne	78	40.56	GASOLINE	60244
325171	Didier Gelin	1FHV877	Pierre Quiroule	19-07-2016 07:59:58	19-07-2016	07:59:58	Rue de Genleau Lasne	78	40.56	GASOLINE	60244
325171	Didier Gelin	1FHV877	Pierre Quiroule	19-07-2016 08:01:00	19-07-2016	08:01:00	Rue de Genleau Lasne	78	40.56	GASOLINE	60244
325171	Didier Gelin	1FHV877	Pierre Quiroule	19-07-2016 08:02:00	19-07-2016	08:02:00	Rue d'Aquinot Lasne	78	40.56	GASOLINE	60245

1.3.5 Consumption report

1. Subject

Calculation of the consumption of the vehicle based on the information collected by the Fuel Tracker hardware

Prerequisites:

- Fuel Tracker hardware connected to the gauge
- Subscription to Fuel Monitor service

2. Selection criteria

Choice vehicles
Date/time from/till

3. Detailed description

The report calculates the consumption over the defined period and compares it with the theoretical consumption of the vehicle.

The field « difference volume » gives the difference percentage between both data. A colour and tolerance threshold can be defined (MENU-MANAGEMENT-Tolerance threshold). This allows you to visually detect quickly inconsistencies.

4. Report contents

One line per vehicle over the requested period:

- Name vehicle
- Number plate
- Driver
- Distance covered
- Theoretical consumption
- % difference

Véhicule	plaque	Chauffeur par défaut	Distance	Consommation théorique de	Consommation (l/100 km)	Volume (l.)	Différence volume (%)
Didier Geln	1PHV877	Pierre Quiroule	1895	11	10.5	199.16	5

1.3.6 [Syphoning report](#)

1. Subject

Detailed list of syphonings detected by the Fuel Tracker hardware in the vehicle.

Prerequisites:

- Fuel Tracker hardware connected to the gauge
- Subscription to Fuel Siphon service

2. Selection criteria

Choice vehicles

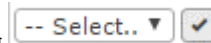
Date/time from/till

3. Detailed description

List of syphonings detected by the Fuel Tracker hardware in the vehicle

Sometimes the system detects an uncertain syphoning. In that case this is indicated in the column

« information ». You can then validate or reject the syphoning



4. Report contents

One line per detected refuel with choice of the following fields:

- Number beacon
- Name vehicle
- Number plate
- Drive
- Date and time
- Volume
- Address
- Information about the refuel
- Status (validate or reject in case of uncertain syphoning)

SatID	Véhicule	plaque	Chauffeur	Date/heure GPS	Date	Heure	Adresse	Volume	Information	Statut
323171	Dider Geln	1RHY877	Pierre Quiroule	25-06-2016 10:40:46	25-06-2016	10:40:46	Rue de Genleku	4.68		
323171	Dider Geln	1RHY877	Pierre Quiroule	09-06-2016 08:36:26	09-06-2016	08:36:26	Bos van Houthulpsbaan 19 1770 Wiersembeek-Oppeem BE	8.32		

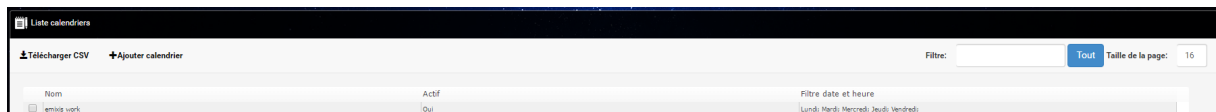
1.4 Calendar management

MENU-MANAGEMENT-Calendars

The calendar management allows you to define the time slots per day. The calendars can be used in the following functions:

- Management activity
- Management private life
- Management alerts


Select calendar management in the main menu. The list of existing calendars appears:



Edit a calendar or create a new calendar.

Attention: avoid modifying existing calendars without verifying where they are used.

To create a calendar you just go through the following steps:

1. Give a name
2. Define the days and hours for every day.
 - a. It is possible to define the hours day per day, for the days of the week or for the whole week.
 - b. It is possible to copy a day to other days 
3. Define specific dates during which the calendar is not active (for instance holidays)
4. Save
5. Choose the button « Enter » if the editing has been initiated from another module (for instance creation activity)

The graph allows you to see the defined time slots.

